

**PROPOSED REDACTED
EXHIBIT 1**

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UNITED STATES DISTRICT COURT
NORTHERN DISTRICT OF CALIFORNIA
SAN JOSE DIVISION

CISCO SYSTEMS, INC.,
Plaintiff,
v.
ARISTA NETWORKS, INC.,
Defendant.

Case No. 5:14-cv-05344-BLF (PSG)

ARISTA'S RESPONSE TO CISCO'S SECOND AMENDED COMPLAINT; ARISTA'S COUNTERCLAIMS FOR ANTITRUST AND UNFAIR COMPETITION

Judge: Hon. Beth Labson Freeman

Date Filed: December 5, 2014

Trial Date: November 21, 2016

ARISTA NETWORKS, INC.,
Counterclaimant,
v.
CISCO SYSTEMS, INC.,
Counterclaim-Defendant

**UNREDACTED VERSION OF
DOCUMENT SOUGHT TO BE SEALED**

Defendant Arista Networks, Inc. (“Arista”) hereby responds to the Second Amended Complaint filed by Plaintiff Cisco Systems, Inc. (“Cisco”) as follows:

More than ten years ago, Arista Networks began to develop an alternative to the Cisco Systems network routers and switches that had dominated (and continue to dominate) the market. Arista's products would be driven by a completely new operating system, developed from scratch, that offered a fresh, open, programmable and modular architecture in contrast to the closed, proprietary systems used by legacy vendors such as Cisco. Arista introduced its first product, a 10 Gigabit Ethernet switch, with Arista's Extensible Operating System ("EOS"), more than six years ago. Although EOS's architecture was radically different than Cisco's, Arista openly advertised that its switches could be configured and monitored using well-known "industry standard" command-line interface ("CLI") commands that were commonly used with Cisco routers. Since then, Arista has invested hundreds of millions of dollars and hundreds of thousands of employee hours in improving its products and growing its business, earning some of the most prestigious awards in the industry along the way. Until December 2014, Cisco never suggested that it claimed copyright protection in the set of functional commands that most of the industry uses.

This litigation is not about protecting copyrightable expression in commonly used CLI commands. There is no such protectable expression, and if there were Cisco would have raised an objection long ago—either to Arista or to the other companies who also use those commands. Rather, this litigation is an effort to debilitate a company that is disrupting Cisco’s long-standing dominant position in this market with better technology. Instead of competing with Arista in the market, Cisco hopes to damage it with costly, but baseless, litigation.

INTRODUCTION

1. Arista is without knowledge or information sufficient to form a belief as to the truth of the allegations of paragraph 1, and therefore denies them.

2. Arista admits that certain of its employees and members of its Board of Directors were at one time employed by Cisco. Arista denies any remaining allegations of paragraph 2.

1 3. Arista admits that it sells networking products. Arista denies any remaining
 2 allegations of paragraph 3.

3 4. Arista admits that a March 20, 2014 article in *Fortune* attributes the following
 4 quote to Jayshree Ullal: “Since I helped build the enterprise, I would never compete with Cisco
 5 directly in the enterprise in a conventional way. It makes no sense. It would take me 15 years and
 6 15,000 engineers, and that’s not a recipe for success.” Arista denies that the quote included the
 7 bracketed language or placed emphasis on any words, as appears in Cisco’s Second Amended
 8 Complaint. Arista also denies that Cisco is using the quote in context or that the implication is
 9 the one that Cisco intends to draw from it. Arista denies any remaining allegations of
 10 paragraph 4.

11 5. Arista admits that OptumSoft filed a complaint against Arista. Arista denies any
 12 remaining allegations of paragraph 5.

13 6. Arista admits that a CLI is a set of commands used in operating technology
 14 products. Arista denies any remaining allegations of paragraph 6.

15 7. Arista admits that a February 22, 2013 article in *Network World* attributes the
 16 following quote to Ms. Ullal: “The training is very easy and a Cisco CCIE expert would be able
 17 to use Arista right away, because we have similar command-line interfaces and operational look
 18 and feel. Where we don’t have to invent, we don’t. Where we had to invest for these specific use
 19 cases we do, so most often it’s a use case or a project.” Arista denies that the quote placed
 20 emphasis on any words, as appears in Cisco’s Second Amended Complaint. Arista denies that
 21 Cisco is using the quote in context or that the implication is the one that Cisco intends to draw
 22 from it. Arista denies any remaining allegations of paragraph 7.

23 8. Arista admits that a post on Arista’s blog, dated November 13, 2013, attributed the
 24 following quotes to Kenneth Duda: “Lesson 5. Provide familiar interfaces to ease adoption”;
 25 “Learning the lesson from others’ attempts at integrating Linux into switching, we wrote a
 26 standard CLI that runs on top of Sysdb. It retains the familiar management commands”; and
 27 “The remaining 80% tell us they appreciate the way they can leverage their deep IOS experience,
 28 as they can easily upgrade an aging Catalyst infrastructure to Arista.” Arista denies that the

1 quotes included the bracketed language or placed emphasis on any words, as appears in Cisco's
 2 Second Amended Complaint. Arista admits that, in a video posted to Arista's blog, Mr. Duda
 3 stated that: "It turns out that you don't have to choose. You can actually have it both ways. You
 4 can have a true Linux environment and all of the familiar management interfaces, standard CLI,
 5 standard SNMP stack, OMI, if you prefer to manage that way. All of these different management
 6 interfaces are simply user processes riding on top of the same system B and Linux 4 as all the rest
 7 of the software. And we've found it's been very helpful for our customers to be able to rapidly
 8 adopt our products and integrate them into their environments. It's been very helpful that our
 9 switches provide a familiar management interface so their existing tools and processes, screen
 10 scraping, automation, continue to work just as they did before." Arista denies that the quote set
 11 forth in paragraph 8 of Cisco's Second Amended Complaint accurately reflects Mr. Duda's
 12 statement. Arista also denies that Cisco is using any of the quotes set forth in paragraph 8 in
 13 context or that the implication is the one that Cisco intends to draw from it. Arista denies any
 14 remaining allegations of paragraph 8.

15 9. Arista denies the allegations of paragraph 9.

16 10. Arista denies the allegations of paragraph 10.

17 11. Arista denies the allegations of paragraph 11, and specifically denies the allegation
 18 that any of Arista's actions harm innovation.

19 12. Arista denies the allegations of paragraph 12.

20 **I. NATURE OF THE ACTION**

21 13. Arista admits that the Second Amended Complaint purports to allege infringement
 22 under the copyright and patent laws of the United States. Arista denies any remaining allegations
 23 of paragraph 13.

24 **II. THE PARTIES**

25 14. Arista is without knowledge or information sufficient to form a belief as to the
 26 truth of the allegations of paragraph 14, and therefore denies them.

27 15. Arista admits that it is a Delaware Corporation with a principal place of business at
 28 5453 Great America Parkway, Santa Clara, California 95054.

III. **JURISDICTION**

16. Arista admits that 28 U.S.C. §§ 1331 and 1338 confer jurisdiction upon this Court as to claims arising under the copyright and patent laws and claims arising under the law of the United States. Arista denies any remaining allegations of paragraph 16.

17. Arista admits that this Court has personal jurisdiction over it. Arista admits that it conducts business within the State of California and within the Northern District of California. Arista denies any remaining allegations of paragraph 17.

IV. VENUE

18. Arista admits that venue is proper in the Northern District of California. Arista denies any remaining allegations of paragraph 18.

V. INTRADISTRICT ASSIGNMENT

19. Arista admits the allegations of paragraph 19.

VI. GENERAL ALLEGATIONS

20. Arista is without knowledge or information sufficient to form a belief as to the truth of the allegations of paragraph 20, and therefore denies them.

21. Arista is without knowledge or information sufficient to form a belief as to the truth of the allegations of paragraph 21, and therefore denies them.

22. Arista is without knowledge or information sufficient to form a belief as to the truth of the allegations of paragraph 22, and therefore denies them.

23. Arista is without knowledge or information sufficient to form a belief as to the truth of the allegations of paragraph 23, and therefore denies them.

24. Arista is without knowledge or information sufficient to form a belief as to the truth of the allegations of paragraph 24, and therefore denies them.

25. Arista admits that what appear to be copies of certificates of registration numbers TXu-1-036-057, TX 5-531-435, TXu-1-048-569, TXu-1-036-063, TXu 1-036-062, TXu-1-057-804, TXu1-036-064, TXu-1-057-805, TXu 1-036-066, TXu-1-057-807, TXu 1-036-065, TXu-1-057-806, TXu-1-188-975, TXu 1-259-162, TX 7-938-524, TX 7-938-525, TX 7-937-159, TX 7-938-341, TXu-1-237-896, TXu-1-270-592, TXu-1-336-997, TXu-1-344-750, TXu-1-592-305,

1 TX 7-933-364, TX 7-933-353, TX 7-937-240, TX 7-937-234, TX 7-940-713, TX 7-940-718, TX
2 7-940-727, TX 7-940-722 issued by the U.S. Copyright Office are attached to Cisco's Second
3 Amended Complaint as Exhibits 3–28. Arista is without knowledge or information sufficient to
4 form a belief as to the truth of the remaining allegations of paragraph 25, and therefore denies
5 them.

6 26. Arista is without knowledge or information sufficient to form a belief as to the
7 truth of the allegations of paragraph 26, and therefore denies them.

8 27. Arista admits that a CLI is “the user interface by which users of Cisco products
9 communicate with the product in order to configure and manage the product.” Arista denies any
10 remaining allegations of paragraph 27.

11 28. Arista admits that a software developer has options when developing an operating
12 system. Arista denies any remaining allegations of paragraph 28.

13 29. Arista is without knowledge or information sufficient to form a belief as to the
14 truth of the allegations of paragraph 29, and therefore denies them.

15 30. Arista is without knowledge or information sufficient to form a belief as to the
16 truth of the allegations of paragraph 30, and therefore denies them.

17 31. Arista is without knowledge or information sufficient to form a belief as to the
18 truth of the allegations of paragraph 31, and therefore denies them.

19 32. Arista admits that U.S. Patent No. 7,046,526 (“the '526 patent”), on its face, is
20 entitled “Generic Command Interface for Multiple Executable Routines” and bears an issuance
21 date of May 16, 2006. Arista further admits that what appears to be a copy of the '526 patent is
22 attached to Cisco's Second Amended Complaint as Exhibit 29. Arista is without knowledge of
23 information sufficient to form a belief as to the truth of any remaining allegations of paragraph
24 32, and therefore denies them.

25 33. Arista is without knowledge or information sufficient to form a belief as to the
26 truth of the allegations of paragraph 33, and therefore denies them.

27 34. Arista denies the allegations of paragraph 34.

1 35. Arista is without knowledge or information sufficient to form a belief as to the
2 truth of the allegations of paragraph 35, and therefore denies them.

3 36. Arista admits that U.S. Patent No. 7,953,886 ("the '886 patent"), on its face, is
4 entitled "Method and System of Receiving and Translating CLI Command Data Within a Routing
5 System" and bears an issuance date of May 31, 2011. Arista further admits that what appears to
6 be a copy of the '886 patent was attached to Cisco's Second Amended Complaint as Exhibit 30.
7 Arista is without knowledge of information sufficient to form a belief as to the truth of any
8 remaining allegations of paragraph 36, and therefore denies them.

9 37. Arista is without knowledge or information sufficient to form a belief as to the
10 truth of the allegations of paragraph 37, and therefore denies them.

11 38. Arista denies the allegations of paragraph 38.

12 39. Arista is without knowledge or information sufficient to form a belief as to the
13 truth of the allegations of paragraph 39, and therefore denies them.

14 40. Arista admits that Andreas Bechtolsheim previously worked as Vice President and
15 General Manager of Cisco's Gigabit Switching Unit. Arista admits that Mr. Duda previously
16 worked as a software engineer in Cisco's Gigabit Business Unit. Arista admits that Ms. Ullal
17 previously worked as Senior Vice President of Cisco's Data Center, Switching and Services
18 Group. Arista admits that Doug Gourlay previously worked as Vice President of Cisco's
19 Datacenter Marketing Group. Arista denies any remaining allegations of paragraph 40.

20 41. Arista denies the allegations of paragraph 41, and specifically denies that Arista
21 copied Cisco's technologies.

22 42. Arista denies the allegations of paragraph 42, and specifically denies that Arista
23 copied Cisco's technologies.

24 43. Arista denies the allegations of paragraph 43, and specifically denies that Arista
25 copied Cisco's technologies.

26 44. Arista denies the allegations of paragraph 44, and specifically denies all
27 allegations of copyright and patent infringement.

1 45. Arista admits that a March 20, 2014 article in *Fortune* attributes the following
 2 quote to Ms. Ullal: “Since I helped build the enterprise, I would never compete with Cisco
 3 directly in the enterprise in a conventional way. It makes no sense. It would take me 15 years and
 4 15,000 engineers, and that’s not a recipe for success.” Arista denies that the quote placed
 5 emphasis on any words, as appears in Cisco’s Second Amended Complaint. Arista denies that
 6 Cisco is using the quote in context and that the implication is the one that Cisco intends to draw
 7 from it. Arista denies any remaining allegations of paragraph 45.

8 46. Arista admits that a February 22, 2013 article in *Network World* attributes the
 9 following quote to Ms. Ullal: “The training is very easy and a Cisco CCIE expert would be able
 10 to use Arista right away, because we have similar command-line interfaces and operational look
 11 and feel. Where we don’t have to invent, we don’t. Where we had to invest for these specific use
 12 cases we do, so most often it’s a use case or a project.” Arista denies that the quote placed
 13 emphasis on any words, as appears in Cisco’s Second Amended Complaint. Arista denies that
 14 Cisco is using the quote in context and that the implication is the one that Cisco intends to draw
 15 from it. Arista denies any remaining allegations of paragraph 46.

16 47. Arista admits that a post on Arista’s blog, dated November 13, 2013, attributed the
 17 following quotes to Mr. Duda: “Lesson 5. Provide familiar interfaces to ease adoption”;
 18 “Learning the lesson from others’ attempts at integrating Linux into switching, we wrote a
 19 standard CLI that runs on top of Sysdb. It retains the familiar management commands . . .”; and
 20 “The remaining 80% tell us they appreciate the way they can leverage their deep IOS experience,
 21 as they can easily upgrade an aging Catalyst infrastructure to Arista.” Arista denies that the
 22 quotes placed emphasis on any words or included the words in brackets, as appears in Cisco’s
 23 Second Amended Complaint. Arista denies that Cisco is using any of these quotes in context and
 24 that the implication is the one that Cisco intends to draw from it. Arista denies any remaining
 25 allegations of paragraph 47.

26 48. Arista admits that, in a video posted to Arista’s blog, Mr. Duda stated that: “It
 27 turns out that you don’t have to choose. You can actually have it both ways. You can have a true
 28 Linux environment and all of the familiar management interfaces, standard CLI, standard SNMP

1 stack, OMI, if you prefer to manage that way. All of these different management interfaces are
 2 simply user processes riding on top of the same system B and Linux 4 as all the rest of the
 3 software. And we've found it's been very helpful for our customers to be able to rapidly adopt
 4 our products and integrate them into their environments. It's been very helpful that our switches
 5 provide a familiar management interface so their existing tools and processes, screen scraping,
 6 automation, continue to work just as they did before." Arista also admits that, when Mr. Duda
 7 was asked, "But if they just want to take the switch, just as they're used to, take it out of the box,
 8 plug in your console, whatever, SSH in, it's no different," he responded, "Yeah, you can have it
 9 both ways, that's right." Arista denies that the quotes included the bracketed language or placed
 10 emphasis on any words, as appears in Cisco's Second Amended Complaint. Arista denies that
 11 Cisco is using these quotes in context and that the implication is the one that Cisco intends to
 12 draw from it. Arista denies the remaining allegations of paragraph 48.

13 49. Arista admits that a white paper Arista released, entitled "EOS: An Extensible
 14 Operating System", states: "The familiar EOS command-line interface (CLI) avoids retraining
 15 costs, and EOS' single release train simplifies software upgrade deployment." Arista denies that
 16 the quote placed emphasis on any words, as appears in Cisco's Second Amended Complaint.
 17 Arista denies that Cisco is using this quote in context and that the implication is the one that
 18 Cisco intends to draw from it. Arista denies the remaining allegations of paragraph 49.

19 50. Arista denies the allegations of paragraph 50, and specifically denies that Arista
 20 has infringed or is liable for infringement of Cisco's copyrights.

21 51. Arista denies the allegations of paragraph 51.

22 52. Arista denies the allegations of paragraph 52.

23 53. Arista denies the allegations of paragraph 53.

24 54. Arista admits that it uses the command modes and prompts identified under the
 25 subheading "Arista EOS Command Modes" in paragraph 54. Arista denies any remaining
 26 allegations of paragraph 54.

27 55. Arista admits that it provides customers with user manuals and guides. Arista
 28 denies any remaining allegations of paragraph 55.

1 56. Arista denies the allegations of paragraph 56.
 2 57. Arista denies the allegations of paragraph 57.
 3 58. Arista admits that it published on December 10, 2014 a post on its website entitled,
 4 “Arista Introduces EOS+: Platform For Software Driven Cloud Networking.” Arista denies any
 5 remaining allegations of paragraph 58.

6 59. Arista admits that the EOS+ platform includes EOS SDK, vEOS, EOS
 7 applications and EOS consulting services. Arista denies any remaining allegations of paragraph
 8 59.

9 60. Arista denies the allegations of paragraph 60.

10 61. Arista admits that it published on December 9, 2014 a previously-recorded video
 11 in which Mr. Duda discussed EOS+. Arista denies any remaining allegations of paragraph 61.

12 62. Arista admits that the EOS+ platform includes EOS SDK. Arista denies any
 13 remaining allegations of paragraph 62.

14 63. Arista denies the allegations of paragraph 63.

15 64. Arista denies the allegations of paragraph 64.

16 65. Arista admits that the EOS+ platform includes EOS applications. Arista denies
 17 any remaining allegations of paragraph 65.

18 **VII. COUNT I – COPYRIGHT INFRINGEMENT**

19 66. Arista incorporates by references its responses to the allegations of paragraph 1
 20 through 65 above as its response to paragraph 66 of Cisco’s Second Amended Complaint.

21 67. Arista denies the allegations of paragraph 67, and specifically denies that Arista
 22 has infringed or is liable for infringement of Cisco’s copyrights identified in paragraph 67.

23 68. Arista denies the allegations of paragraph 68.

24 69. Arista denies the allegations of paragraph 69.

25 70. Arista denies the allegations of paragraph 70.

26 71. Arista denies the allegations of paragraph 71.

27 72. Arista denies the allegations of paragraph 72.

28 73. Arista denies the allegations of paragraph 73.

VIII. COUNT II – INFRINGEMENT OF THE '526 PATENT

74. Arista incorporates by references its responses to the allegations of paragraph 1 through 73 above as its response to paragraph 74 of Cisco's Second Amended Complaint.

75. Arista admits that the '526 patent, on its face, bears an issuance date of May 16, 2006. Arista denies any remaining allegations of paragraph 75.

76. Arista denies the allegations of paragraph 76, and specifically denies Arista has infringed or is liable for infringement of any valid and enforceable claim of the '526 patent.

77. Arista denies the allegations of paragraph 77.

78. Arista denies the allegations of paragraph 78.

79. Arista denies the allegations of paragraph 79.

80. Arista denies the allegations of paragraph 80.

IX. COUNT III – INFRINGEMENT OF THE '886 PATENT

81. Arista incorporates by references its responses to the allegations of paragraph 1 through 80 above as its response to paragraph 81 of Cisco's Second Amended Complaint.

82. Arista admits that the '866 patent, on its face, bears an issuance date of May 31, 2011. Arista denies any remaining allegations of paragraph 82.

83. Arista denies the allegations of paragraph 83, and specifically denies Arista has infringed or is liable for infringement of any valid and enforceable claim of the '886 patent.

84. Arista denies the allegations of paragraph 84.

85. Arista denies the allegations of paragraph 85.

86. Arista denies the allegations of paragraph 86.

87. Arista denies the allegations of paragraph 87.

X. PRAYER FOR RELIEF

These paragraphs set forth the statement of relief requested by Cisco to which no response is required. Arista denies that Cisco is entitled to any of the requested relief and denies any allegations contained in the Prayer for Relief to which a response is required.

Arista denies each and every allegation of Cisco's Second Amended Complaint not specifically admitted or otherwise responded to above. Arista specifically denies that Arista has

1 infringed or is liable for infringement of any valid and enforceable copyrights or patents of Cisco.
 2 Arista further specifically denies that Cisco is entitled to any relief whatsoever of any kind against
 3 Arista as a result of any act of Arista or any person or entity acting on behalf of Arista.

4 **XI. DEFENSES**

5 Arista asserts the following defenses in response to Cisco's Second Amended Complaint.
 6 By asserting these defenses, Arista does not concede that it bears the burden of proof with respect
 7 to any of them. All defenses are pled in the alternative and do not constitute an admission of
 8 liability or that Cisco is entitled to any relief whatsoever. Arista also reserves the right to assert
 9 additional defenses and/or counterclaims as additional facts are learned or present themselves
 10 during discovery or otherwise during the course of these proceedings.

11 **First Defense—Failure to State a Claim for Relief**

12 1. Cisco's Second Amended Complaint fails to state a claim upon which relief can be
 13 granted, including, but not limited to, failure to meet the standard for pleading set by the Supreme
 14 Court in *Ashcroft v. Iqbal*, 556 U.S. 662 (2009) and *Bell Atlantic Corp. v. Twombly*, 550 U.S. 544
 15 (2007).

16 **Second Defense—Non-infringement of Copyrights**

17 2. Arista does not infringe and has not infringed the copyrights-in-suit.

18 **Third Defense—Non-infringement of Patents**

19 3. Arista does not infringe and has not infringed (not directly, contributorily, or by
 20 inducement), either literally or under the doctrine of equivalents, and is not liable for
 21 infringement of any valid and enforceable claim of the patents-in-suit as properly construed.

22 **Fourth Defense—Fair Use**

23 4. Any alleged use Arista made of Cisco's copyrighted material was a fair use that is
 24 not actionable.

25 **Fifth Defense—Laches, Acquiescence, Estoppel, and/or Waiver**

26 5. One or more of Cisco's claims are barred by one or more of the equitable doctrines
 27 of laches, acquiescence, estoppel, and/or waiver.

Sixth Defense—Unclean Hands

6. Cisco's requested relief is barred, in whole or in part, by Cisco's unclean hands.

Seventh Defense—Copyright Misuse

7. Cisco's claims are barred in whole or in part because it has misused its copyright to secure an exclusive right or limited monopoly not granted by the Copyright Office and which is contrary to public policy to grant.

Eighth Defense—Invalidity of Patents

8. Some or all of the claims of the '526 and '886 patents are invalid under the Patent Act, 35 U.S.C. §§ 1, *et seq.*, including, but not limited to, 35 U.S.C. §§ 101, 102, 103, and/or 112.

Ninth Defense—Prosecution History Estoppel

9. Cisco is estopped by reason of prosecution history estoppel from asserting infringement of the '526 and '886 patents under the doctrine of equivalents.

Tenth Defense—Copyright Protection Unavailable

10. Cisco's claims are barred in whole or in part by scenes a faire, the merger doctrine, and/or other limits on the scope of protection available for the works at issue.

Eleventh Defense—Equitable Relief Unavailable

11. Cisco is barred from obtaining any equitable relief from Arista because any alleged injury to Cisco is neither immediate nor irreparable, Cisco has an adequate remedy at law, and granting equitable relief would not be in the public interest.

Twelfth Defense—Abandonment

12. Cisco's claims are barred in whole or in part because its course of action and inaction, over a number of years, constitutes an abandonment of its copyright.

WHEREFORE, Arista requests that the Court enter judgment in its favor and award it reasonable attorneys' fees and costs and such other relief as may be just.

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ARISTA'S COUNTERCLAIMS

I. NATURE OF THE ACTION

1. Counterclaimant Arista Networks, Inc. (“Arista”) brings this action against Counterclaim-Defendant Cisco Systems, Inc. (“Cisco”) under Section 2 of the Sherman Act, 15 U.S.C. § 2, and California’s Unfair Competition Law, Cal. Bus. & Prof. Code § 17200 *et seq.*

2. This case is about Cisco’s “at all costs” strategy to suppress competition and maintain its hegemony in the data center. Arista knows from experience that vigorous competition is the fulcrum of the economy. Indeed, it is Arista’s innovations that are helping to transform the data center, benefitting key sectors of the economy such as “cloud computing.”

3. But Cisco, realizing that it is being out-competed and out-innovated by a far smaller competitor, has resorted to a scheme of anticompetitive conduct to retain its monopoly in the data center. Cisco knows what is at stake. [REDACTED]

113. **100% of the time** I feel that I have the right to do what I want with my body.

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Cisco

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therefore has embarked on a scheme, [REDACTED]

see Ex. A, in its effort to maintain

see Ex. A, in its effort to maintain its monopoly by improperly and illegally foreclosing Arista and others from competing effectively in the market.

4. Cisco's illegal and anticompetitive conduct, detailed below, is the last resort of an incumbent monopolist who fears competition from more innovative firms who threaten that monopoly. Its goal and effect is to maintain Cisco's monopoly by improperly foreclosing customers from accessing rival products, locking those customers into Cisco's legacy technology, in a world where – absent the lock-in – the customer would prefer to choose more innovative products from other firms. Cisco has also leveraged the pricing of after-market services that only it can provide, using its massive installed base to drive customers away from choosing its more efficient and technologically superior competitor Arista for new products. Cisco's illegal conduct has harmed, and unless stopped will continue to harm, competition in the market for Ethernet switches. And customers are the ultimate losers, because they end up with a

1 poorer alternative as a result of Cisco's manipulation. These counterclaims seek to remedy that
 2 problem and restore competition to the data center.

3 **II. THE PARTIES**

4 5. Counterclaimant Arista is a corporation organized and existing under the laws of
 5 Delaware, having its principal place of business at 5453 Great America Parkway, Santa Clara,
 6 CA 95054.

7 6. On information and belief, Counterclaim-Defendant Cisco is a corporation
 8 organized and existing under the laws of California, having its principal place of business at 170
 9 West Tasman Dr., San Jose, CA 95134.

10 **III. JURISDICTION AND VENUE**

11 7. This Court has subject matter jurisdiction under 28 U.S.C. § 1337 (commerce
 12 and antitrust regulation) and 28 U.S.C. § 1331 (federal question), as this action arises under
 13 Section 2 of the Sherman Act, 15 U.S.C. § 2, and Section 16 of the Clayton Act, 15 U.S.C. § 26.

14 8. This Court has supplemental subject matter jurisdiction of the pendent state law
 15 claims under 28 U.S.C. § 1367.

16 9. Venue is proper in this District because Counterclaim-Defendant Cisco has its
 17 principal place of business in this District and is subject to personal jurisdiction in this District.
 18 In addition, venue is proper because Cisco's unlawful conduct occurred and was masterminded
 19 by senior Cisco executives in this District, and because Arista has suffered harm in this District.

20 **IV. INTERSTATE COMMERCE**

21 10. The acts complained of herein have occurred within the flow of, and have
 22 substantially affected, interstate trade and commerce.

23 **V. BACKGROUND FACTS**

24 **A. Ethernet Switches**

25 11. For nearly two decades, Cisco has dominated the market for Ethernet switches.
 26 Ethernet switches connect computers, servers, storage and other devices together to form a
 27

1 network. These switch-controlled networks are connected through routers (another product in
 2 which Cisco has long-entrenched dominance) to form the Internet.

3 12. It is hard to overstate the importance of Ethernet switches and routers to modern
 4 communications. As Cisco itself has explained, “switches and routers are the building blocks
 5 for *all business communications*, from data to voice and video to wireless access.” (Hereinafter,
 6 emphasis in quotations is added unless otherwise noted). Without Ethernet switches, most
 7 modern businesses of any size would be unable to operate. Even more importantly, continued
 8 advances in Internet-based technologies, such as services provided “in the cloud,” depend on
 9 continued rapid advances in switch innovation.

10 13. Cisco is a monopolist in the approximately \$23 billion global market for
 11 Ethernet switches as well as the \$10 billion U.S. Ethernet switch market. Its sales and market
 12 shares are approximately thirteen times its closest switch competitors in North America, and 5.5
 13 times its Ethernet switch competitors globally.

14 14. Cisco has maintained its market dominance for at least fifteen years, with global
 15 and U.S. market shares usually exceeding 65% (and often above 70%), with no competitor ever
 16 achieving more than an 11% share (and only one above 4%). Analysts frequently have referred
 17 to the competitors in the Ethernet switch space as “Cisco and the seven dwarfs.”

18 15. Cisco publicizes the fact that it occupies the #1 position in major networking
 19 products (such as for Enterprise routing, wireless LAN, and telepresence in addition to Ethernet
 20 switches). That overall network-product dominance provides a significant barrier to entry into
 21 the global and U.S. markets for all Ethernet switches.

22 16. Ethernet switches operate at various speeds, and Ethernet switches operating at
 23 the highest speeds are referred to as *high-speed* Ethernet switches. High-speed Ethernet
 24 switches are used for, *e.g.*, data centers and cloud services. As explained in detail below, Cisco
 25 has monopolized the global and U.S. markets for all Ethernet switches, and also monopolized
 26 the global and U.S. markets for the narrower category of Ethernet switches referred to as high-
 27 speed Ethernet switches.

1 17. Over the last several years, the global and U.S. markets for high-speed Ethernet
 2 switches have grown several times faster than the global and U.S. markets for all Ethernet
 3 switches. Cisco has maintained its dominance in the markets for high-speed Ethernet switches
 4 as well, with revenues and shares six times greater than its closest competitors. Cisco
 5 consistently and for a long time has maintained a revenue share in excess of 70% for the high-
 6 speed Ethernet switch markets, dipping just below that mark (to 66%) for the first time recently.
 7 As discussed below, the markets for all Ethernet switches (both global and U.S.) and high-speed
 8 Ethernet switches (both global and U.S.) have substantial barriers to entry which have allowed
 9 Cisco's dominance to remain unchallenged. Cisco has enjoyed the ability to exclude rivals in
 10 these markets, and as discussed below, has taken and is continuing to take anticompetitive
 11 actions to preclude competitors who seek to overcome its monopoly power.

12 18. Arista, which was founded in 2004 and released its first product in 2008, has
 13 pioneered a revolutionary approach to scalable, high-speed Ethernet switches that today are
 14 being used in data centers of companies that provide financial services, social media, e-
 15 commerce, cloud computing, and scientific computing, as well as in many government agencies.
 16 Cisco has sought to eliminate the competitive threat that Arista poses by leveraging Cisco's
 17 monopoly power, rather than by competing on the merits with better or cheaper products.

18 19. Cisco's own competitive analyses confirm the threat Arista poses to Cisco. [REDACTED]
 19 [REDACTED]
 20 [REDACTED]
 21 [REDACTED] As
 22 one senior Cisco employee put it, "Arista is truly an amazing company," and Arista's founder is
 23 "a genius" whom "Cisco should fear whenever he treads nearby." See Ex. B.

24 **B. Cisco's Attempt – and Failure – to Develop its Own "Arista killer"
 25 Technology**

26 20. In response to this competitive threat, Cisco has repeatedly tried, and failed, to
 27 counter Arista's innovation and market success. For example, in 2012, Cisco formed a "spin-
 28 in" called Insieme Networks ("Insieme"), comprised of Cisco engineers, for the express purpose

1 of trying to develop what Cisco's CEO John Chambers described as an "Arista killer" line of
 2 products. Cisco funded Insieme with over \$100 million in 2012, and then spent over \$800
 3 million as part of its official spin-in into Cisco in 2013. Insieme heavily recruited Arista
 4 engineers with high-priced contracts before its spin-in into Cisco. Arista, however, has
 5 continued to innovate, and although Cisco spent nearly one billion dollars on Insieme, it failed
 6 to become the "Arista killer" that Cisco had hoped.

7 21. Having failed to slow Arista in the marketplace, Cisco has resorted to other
 8 tactics to preserve its longstanding Ethernet switch and high-speed Ethernet switch monopolies.
 9 For example, [REDACTED]
 10 [REDACTED] *see Ex. C,* [REDACTED]
 11 [REDACTED] That
 12 strategy also failed, and Arista successfully launched its IPO in 2014.

13 22. Unable to slow Arista through competition on the merits, Cisco now has turned
 14 to anticompetitive conduct that includes an effort to turn customers' own investments in the
 15 management of their networks into a trap that locks them into purchasing only Cisco Ethernet
 16 switches, including high-speed Ethernet switches; and a pricing scheme that punishes Cisco
 17 customers by increasing the cost they must pay to maintain and service their network if they
 18 purchase from rivals. These counterclaims address each anticompetitive scheme in more detail
 19 below.

20 **C. Command Line Interface: Cisco's Anticompetitive Scheme to Forestall
 21 Competition**

22 23. Hundreds of thousands of network engineers have spent months, if not years,
 23 learning how to configure and control Ethernet switches by entering text commands into the
 24 "command line interface," or "CLI," that instruct the switches to perform specific functions. In
 25 aggregate, they have spent millions of person-years actually working on networks with Ethernet
 26 switches configured and controlled by CLI commands. These text commands are similar to
 27 those used on early PCs running operating systems such as Microsoft DOS. Unlike later PCs,
 28 which can now be controlled using operating systems with "graphical" user interfaces and

1 virtual buttons (such as “print”), Ethernet switches require network engineers to use many more
 2 commands than can be handled through graphical controls. Consequently, network engineers
 3 who manage networks of switches must still either manually enter their commands into the CLI,
 4 or write programs (called “scripts”) that automate strings of commands.

5 24. CLIs have existed since the 1960s, long before Cisco was founded as a
 6 company, and CLI commands were used with the first operating systems such as TOPS-10,
 7 TENEX, and UNIX. Upon information and belief, when Cisco developed its first Ethernet
 8 switches, it drew from CLI commands already used with these and other operating systems. For
 9 example, [REDACTED]

10 [REDACTED] And Cisco also appears to
 11 have derived numerous CLI commands from pre-existing technical standards. The reason was
 12 simple: because the purpose of CLI commands is to make Ethernet switch monitoring and
 13 configuration as easy as possible for network engineers, Cisco had a strong incentive to use
 14 commands with which engineers were already familiar.

15 25. As Cisco’s documents confirm, Cisco knew that the CLI commands it used had
 16 become widely familiar to network customers between 1993 and 2000, and that “customers ha[d]
 17 made a] huge investment” in learning those commands and incorporating them into scripts. See
 18 Ex. D. This was no accident. For over a decade, Cisco has represented to customers that the
 19 CLI commands it used were “industry standard,” thus assuring customers that their investments
 20 in learning the commands and writing scripts that incorporate them would not lock the
 21 customers into using Cisco’s products, because the same commands could be used to operate
 22 other vendors’ switches. Cisco also repeatedly referenced CLI commands with other
 23 technologies such as Simple Network Management Protocol (“SNMP”) and Extensive Markup
 24 Language (“XML”) that have been adopted by standard-setting organizations.

25 26. Cisco greatly benefited from its representations that its operating systems used
 26 “industry standard” CLI commands, because Ethernet switches can last for ten years or more,
 27 and most customers purchase them incrementally over time. By representing to actual and
 28 potential customers that Cisco Ethernet switches could be controlled using “industry standard”

1 CLI commands, Cisco assured customers that they could undertake significant investment in the
 2 CLI by writing scripts using standard CLI commands, training their network engineers in CLI
 3 commands, and hiring network engineers principally trained in standard CLI commands, while
 4 remaining free to purchase the Ethernet switches that best suited their needs from different
 5 vendors. This option was important to customers because they participate in a sector where
 6 innovation has been rapid and data center performance can be critical to their own ability to
 7 compete. Cisco therefore benefited by making it clear to customers and the industry that it
 8 considered “industry standard” CLI commands used in Cisco’s operating systems to be an open
 9 utility.

10 27. Cisco knew that its representations also had the effect of inducing other Ethernet
 11 switch competitors, when they entered the global and U.S. markets for all Ethernet switches and
 12 high-speed Ethernet switches, to use “industry standard” CLI commands. Indeed, [REDACTED]
 13 [REDACTED]
 14 [REDACTED] And
 15 Cisco knew that its competitors such as Dell were marketing their Ethernet switches to
 16 customers as using “industry standard CLI” and being “[i]nteroperable with Cisco
 17 environments.” See Ex. E. [REDACTED]
 18 [REDACTED] see Ex. F, even while externally,
 19 Cisco actively encouraged customers to make those investments by continuing to characterize
 20 the CLI commands as “industry standard.”

21 28. Upon information and belief, these competitors, in reliance upon Cisco’s
 22 representations, did not attempt upon entry into the market to develop an alternative set of
 23 commands that could be used by customers free of intellectual property claims. Instead, by
 24 adopting “industry standard” CLI commands, these competitors enhanced the benefits and use
 25 of those commands in the market. Customers greatly benefited from their resulting ability to
 26 use a common set of commands across multiple vendors, akin to the benefits of being able to
 27 use a single language among their network engineers. Although CLI commands are not
 28 innovative or valuable in and of themselves (they typically consist of common terms like

1 “show” and “set,” and terms derived from technical standards), they acquire value through
2 customers’ investment in them. They are numerous enough that it is time-consuming and
3 expensive for network engineers to learn them, and having to use multiple CLIs could introduce
4 “translation”-type errors into a customer’s CLI scripts that could be extremely costly to
5 customers.

6 29. Upon information and belief, had Cisco not represented to industry participants
7 that the CLI commands it used were “industry standard,” and instead asserted that those
8 commands were proprietary and usable only with Cisco switches, industry participants would
9 likely have developed and invested in alternative “industry standard” CLI commands, free from
10 intellectual property claims. They could have done so in a number of ways, including, for
11 example, through standard-setting bodies such as the Internet Engineering Task Force (“IETF”).
12 Indeed, many of the functions that Cisco’s now-allegedly proprietary CLI commands invoke are
13 described in IETF or other standards and are available for anyone to use. Had Cisco declared to
14 those bodies, or to competitors or customers, that it believed that the CLI commands it used to
15 invoke certain functions were proprietary to Cisco, participants would have likely defined and
16 specified alternative commands that were interoperable with multiple vendors’ switches, as
17 most industry participants want.

18 30. In sum, for more than ten years, Cisco made representations that led customers
19 and the industry to believe that Cisco either did not have or would not assert any intellectual
20 property rights claims in the CLI commands it used, such that customers could invest in those
21 commands without being locked into using Cisco’s switches. As a result, industry participants
22 invested in and used CLI commands without challenging Cisco’s claim of ownership over them
23 – because no such claim was made – or attempting to develop, before participants became
24 locked in, an alternative to commands Cisco claimed to own. Because, as explained above, CLI
25 commands are simple and derive their value only from widespread usage, the industry could
26 readily have developed and deployed alternatives to any command Cisco claimed to own if
27 Cisco had only laid open its intention to claim copyright protection at the time it was
28

1 encouraging widespread use of the commands as an “industry standard” that Cisco led
 2 customers to believe they could use with other vendors’ switches.

3 31. Now, in order to preserve its monopoly in the face of a real competitive threat
 4 on the merits from Arista, Cisco is trying to capitalize on the “barrier to entry” it worked to
 5 create. Cisco is renegeing on its representations that the CLI is “industry standard,” through
 6 which it led customers to believe that they were free to use the CLI to interoperate with other
 7 vendors’ devices. Instead, Cisco seeks to claim that those CLI commands are protected by
 8 copyright and to prevent Arista from using them. As part of this overall policy change, Cisco
 9 seeks to turn customers’ own investments against them. Although Arista built its own
 10 Extensible Operating System (“EOS”) from the ground up, Cisco now claims that Arista
 11 software’s ability simply to *understand* CLI commands *entered by Ethernet switch customers*,
 12 including high-speed Ethernet switch customers, infringes its copyright. And Cisco has never
 13 offered to license Arista to use, for a reasonable royalty, CLI commands in which Cisco claims
 14 a copyright interest.

15 32. Cisco’s change in policy is designed to maintain and further expand Cisco’s
 16 Ethernet switch monopolies. On information and belief, Cisco recognizes that competitors and
 17 customers understood its prior representations about what constituted “industry standard” to
 18 mean that those CLI commands could operate other vendors’ products so that training and
 19 scripts could be put to use with non-Cisco switches. In a recent online blog, however, Cisco’s
 20 General Counsel, Mark Chandler, stated that “[t]he patented and copyrighted features and
 21 implementations [of CLI] being used by Arista are *not* industry standards” – despite more than a
 22 decade in which Cisco has described the CLI commands it uses as “industry standard.” Cisco’s
 23 reversal in position, [REDACTED]

24 [REDACTED] demonstrates that it
 25 understands the problems with claiming the ability to exclude others from things that it has
 26 promoted as industry standard.

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1 **D. Cisco Forces Customers to Purchase Cisco Switches or Face Punishing**
 2 **Maintenance and Service Contract Renewals if Customers Purchase**
 3 **Switches from Rival Vendors**

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1 competition, improperly maintaining Cisco's monopolies. No equally efficient rival or potential
 2 rival could profitably implement a counterstrategy to overcome the effects of this exclusionary
 3 conduct.

4 37. The aim and effect of Cisco's overall conduct, which upon information and
 5 belief includes at least the actions described above, is to foreclose more innovative and efficient
 6 competitors from the global and U.S. Ethernet switch markets, and the global and U.S. high-
 7 speed Ethernet switch markets. Customers of all such products already have been paying supra-
 8 competitive prices in the market for Ethernet switches. Cisco's conduct, if permitted to
 9 continue, threatens to prevent the return of competitive prices and hinder innovation that
 10 otherwise would have occurred.

11 38. The Ethernet switch market accounts for \$23 billion in global commerce.
 12 Cisco's conduct has impeded competition in markets that are the backbone of our modern
 13 economy. Absent this Court's intervention, Ethernet switch customers, and ultimately global e-
 14 commerce consumers and Internet users, will pay the price of Cisco shielding itself from
 15 competition on the merits. The innovation and efficiencies introduced by Cisco's rivals may
 16 never be realized due to Cisco's exclusionary conduct. Even worse, because these markets are
 17 characterized by network effects, the resulting competitive harm would be difficult if not
 18 impossible to reverse.

19 39. Arista is one of several competitors that have been improperly foreclosed.
 20 Arista released its first Ethernet switch product in 2008, and it supplies high-speed Ethernet
 21 switch customers in the United States and around the world. The inevitable effect of Cisco's
 22 overall course of conduct has been and will continue to be to hinder competition in the markets
 23 for high-speed Ethernet switches and for all Ethernet switches. The harm and damage to Arista
 24 is a direct byproduct of the overall harm to competition.

25 **VI. RELEVANT MARKETS AND CISCO'S MARKET POWER**

26 A. **Ethernet Switch Markets**

27 40. Ethernet switches are a relevant product market. Ethernet switches are devices
 28 that control data flow within a network to enable network components to communicate

1 efficiently. They are the fundamental building blocks of modern local area networks, deployed
 2 in virtually every modern business and government office. While Ethernet switches are
 3 differentiated across vendors and customer types, there is no adequate substitute technology that
 4 provides the same function and value within a network infrastructure.

5 41. Routers have been a technology that is complementary to, and not a substitute
 6 for, Ethernet switches. Ethernet switches connect components to create a network, and routers
 7 allow for communication between networks. The two types of devices generally operate at
 8 different logical levels in a network: Ethernet switches transfer information in the data link
 9 layer using physical addresses for network components, whereas routers transfer packets in the
 10 Network or IP layer using virtual addresses. As technology has evolved, Ethernet switch
 11 manufacturers have begun to incorporate certain routing technologies into a single combined
 12 product. This confirms that routers are complements for Ethernet switches and not substitutes.

13 42. Buyers of Ethernet switches would not be able to turn to alternative technologies
 14 in response to a monopolist's price increase above the competitive level.

15 43. The geographic markets for the sale of Ethernet switches are (i) the United
 16 States and (ii) the world. The global market for Ethernet switches includes manufacturers with
 17 product portfolios that are worldwide in scope, and multinational customers that have a demand
 18 for such global capability. There is substantial industry recognition of both a global market for
 19 Ethernet switches and a narrower U.S.-only market. A hypothetical monopolist of Ethernet
 20 switches in the United States would be able to raise prices profitably over competitive levels.
 21 Correspondingly, a hypothetical monopolist of Ethernet switches globally would be able to raise
 22 prices profitably over competitive levels. In fact, Cisco itself has been able to maintain prices
 23 above competitive levels both globally and in the United States.

24 44. Ethernet switch suppliers compete for sales to global customers and national
 25 customers. Accordingly, it is appropriate to analyze the competitive effects of Cisco's conduct
 26 in a global market and in the national market in which vendors compete.

27 45. Cisco has monopoly power in the U.S. and global markets for Ethernet switches,
 28 consistently holding a share in excess of 65% in both markets and protected by high barriers to

1 entry as discussed below. Cisco's Ethernet switch sales and market shares are roughly thirteen
 2 times its closest switch competitors in North America, and 5.5 times its switch competitors
 3 globally. Cisco has managed to maintain this market dominance for at least fifteen years, with
 4 global and U.S. market shares usually exceeding 65% (and often above 70%), with no
 5 competitor ever achieving more than an 11% share (and only one above 4%).

6 **B. High-Speed Ethernet Switch Markets**

7 46. A narrower product market within the overall Ethernet switch market (also
 8 sometimes referred to as a submarket) is the market for high-speed Ethernet switches.
 9 Customers in this market – such as search engines, social networks using data centers, high-
 10 frequency traders, and government agencies – require Ethernet switches that are able to forward
 11 large volumes of data traffic with minimal latency, while also not dropping packets in the
 12 process. The cloud network architecture, which depends on high-speed Ethernet switches,
 13 differs from the traditional network architecture including the presence of scale-out clusters, a
 14 non-blocking design, massive data flows, workload mobility, and automatic provisioning.
 15 These cloud network characteristics, among others, motivate the need for a differentiated type of
 16 high-speed Ethernet switch.

17 47. Sales of high-speed Ethernet switches are growing significantly faster than sales
 18 of all Ethernet switches as a whole due to the explosion of data volume on the Internet. This
 19 phenomenon is spurred by ever smaller and lighter consumer devices that rely on cloud storage
 20 – that is, data stored on servers to which the device connects via the Internet – for the bulk of
 21 high-speed Ethernet switch customers' storage needs.

22 48. Customers that generally do not purchase high-speed Ethernet switches,
 23 particularly small and mid-sized businesses, do not process the same volume of data at the same
 24 high speeds as those used by high-speed Ethernet switch customers. In addition, high-speed
 25 Ethernet switches can be significantly more expensive than Ethernet switches used for other
 26 applications. In a world where an Internet user can easily switch from one search engine to
 27 another if search results take too long to appear, every component of a high-speed Ethernet
 28 switch customer's network must be tuned to maximize speed and quality.

1 49. Thus, customers of high-speed Ethernet switches would not be able to turn to
 2 alternative technologies – including, but not limited to, lower-speed switches – in response to a
 3 high-speed switch monopolist’s price increase above the competitive level.

4 50. As detailed below, extensive investment is required to provide products that
 5 meet the demands of high-speed Ethernet switch customers. Upon information and belief, many
 6 high-speed Ethernet switch customers are multinational firms that require suppliers with
 7 corresponding global capability.

8 51. The geographic markets for the sale of high-speed Ethernet switches are (i) the
 9 United States and (ii) the world. A hypothetical monopolist of high-speed Ethernet switches
 10 globally would be able to raise prices profitably over competitive levels; and, correspondingly, a
 11 hypothetical monopolist of high-speed Ethernet switches in the United States would also be able
 12 to raise prices profitably over competitive levels.

13 52. High-speed Ethernet switch suppliers compete for sales to global customers and
 14 national customers. Accordingly, it is appropriate to analyze the competitive effects of Cisco’s
 15 conduct in a global market and in the national market in which vendors compete.

16 53. Cisco has monopoly power in the high-speed Ethernet switch markets,
 17 maintaining a consistent share in excess of 70%, only dipping below 70% for the first time
 18 recently in large part due to Arista’s innovation. The high-speed Ethernet switch markets also
 19 have substantial barriers to entry as discussed below.

20 54. The markets for high-speed Ethernet switches and all Ethernet switch markets
 21 are collectively referred to as the “Relevant Product Markets.”

22 **C. Switch Maintenance and Service Markets**

23 55. Ethernet switch customers require maintenance and service provided by
 24 Ethernet switch suppliers or third-party vendors to ensure the proper functioning of their
 25 hardware and software. The service market includes the provision of services such as onsite
 26 visits from certified engineers, software updates, technical assistance center access, online
 27 resources, and hardware replacement services. Without such maintenance services, customers
 28 could not address critical performance issues and address service problems that can be

1 catastrophic to their businesses. As one example, a case study for a healthcare system customer
2 on Cisco's website highlights the need for maintenance services that promptly address critical
3 issues and closely monitor customer systems to mitigate potential problems proactively. There
4 are no reasonably interchangeable substitutes for such maintenance services. The geographic
5 markets for this service and maintenance are (i) the United States and (ii) the world. The global
6 and U.S. markets for Ethernet switch service and maintenance are referred to as the "Relevant
7 Service Markets."

8 56. Maintenance services for Ethernet switches cannot be provided efficiently in-
9 house by customers because they require specialized knowledge and training. In addition,
10 customers that have previously purchased their Ethernet switches from more than one supplier
11 (prior to the anticompetitive conduct described below, which has foreclosed competitive
12 Ethernet switch purchases), upon information and belief, may require multiple specialized
13 outside vendors to effectively service their network. For instance, as discussed below, only
14 Cisco is able to provide full maintenance and support on its switch products, thus customers
15 must use Cisco as one of their service vendors even if they purchased switches from other
16 vendors (again prior to the anticompetitive conduct discussed below).

17 57. Thus, customers in the Relevant Service Markets would not be able to turn to
18 alternative services, such as services provided by in-house customer IT staff, in response to a
19 monopolist's price increase above the competitive level for necessary services such as essential
20 bug fixes, patches, and updates for software running on Cisco hardware.

D. Relevant Markets: Summary

22 58. To summarize, the following markets are relevant markets in this case:

- a. All Ethernet switches (both globally and limited to the United States);
- b. The narrower market of high-speed Ethernet switches (both globally and limited to the United States). The markets for all Ethernet switches and the narrower market of high-speed Ethernet switches are collectively referred to as the “Relevant Product Markets”; and

c. Ethernet switch maintenance and service (both globally and limited to the United States) – referred to as the “Relevant Service Markets.”

VII. BARRIERS TO ENTRY

59. The Relevant Product Markets are characterized by high barriers to entry and expansion. There are several factors that contribute to these high entry and expansion barriers for potential new entrants and existing competitors. To begin with, the costs to develop Ethernet switch software and hardware are substantial. It requires tens of millions of dollars for initial development, and then hundreds of millions more to tailor the product to specific customer needs and build an effective sales network. For instance, Arista has invested hundreds of millions of dollars in research and development (“R&D”) to develop and bring to market its innovative Ethernet switch and EOS operating system. (The EOS operating system is the entire operating system including the millions of lines of computer code it comprises, as distinct from the command words used to interface with the operating system).

60. Another barrier to entry for the Relevant Product Markets lies in customers' long purchase cycles when replacing or upgrading their network components to the next technology. For example, it took approximately fifteen years for customers to widely deploy 10+ Gigabit Ethernet switches to replace 1 Gigabit Ethernet switches. These circumstances mean that competitors have limited opportunities to significantly expand their market share.

61. As Cisco publicly promotes, it is the number one vendor for major network components often required by customers for their enterprise infrastructures – such as for Enterprise routing, wireless LAN, and telepresence – in addition to Ethernet switches. Thus, a further barrier to entry is created by the simple fact of Cisco’s dominance. Given the relatively high transaction costs for customers, and the presence of bundled offerings, any new Ethernet switch entrant may need to offer a full line of network components. Alternatively, if a new entrant offers only a limited number of network components, as Arista does, those products must greatly exceed the quality of Cisco’s and at a much lower price to induce a customer to switch. Cisco’s conduct, which if successful would, *inter alia*, reduce the interoperability of

1 network components from a customer perspective, only serves to further increase these already
 2 very high barriers to entry.

3 62. Cisco's anticompetitive policy changes with respect to CLI commands create a
 4 particularly insurmountable barrier to entry. Cisco's claim of copyright in the CLI commands
 5 entered by customers, either manually by their network engineers or automatically through
 6 scripts those customers have written, forces customers who wish to use rivals' Ethernet switches
 7 to either re-train their workforce and rewrite their scripts, at a cost that could easily run into the
 8 millions of dollars, or forgo the ability to use competitive products.

9 63. Cisco's lock-in and subsequent announcement to customers that its CLI
 10 commands, notwithstanding its prior representations, "are *not* industry standards," has created a
 11 barrier to entry regardless of whether Cisco's copyright claim is valid. The possibility of a
 12 copyright-infringement claim will cause some customers to refrain from purchasing non-Cisco
 13 switches that use these CLI commands. But those same customers also may not want to migrate
 14 to otherwise superior and/or less expensive equipment that does not use the CLI commands over
 15 which Cisco claims copyright, because of the costs involved in (i) training engineers to use
 16 different command words; and (ii) operating a system that uses multiple sets of command
 17 words.

18 64. Cisco's own documents explain, with unexpected candor, why its conduct with
 19 respect to CLI commands acts as a barrier to entry. As Cisco knows, its customers have made a
 20 "huge investment" in CLI in reliance on Cisco's prior representations. Being forced at this late
 21 date to retrain their engineers and rewrite their scripts imposes high risks on its customers. By
 22 "extending and preserving that investment" through its anticompetitive conduct, Cisco
 23 substantially increases barriers to entry that already exist.

24 65. Given these barriers to entry and expansion, competition on the merits in the
 25 Relevant Product Markets is critical to ensure the resulting benefits to consumers. If Cisco's
 26 anticompetitive conduct is not stopped, the anticompetitive harm in the Relevant Product
 27 Markets will be long term and likely irreversible.

VIII. CISCO'S OVERALL SCHEME OF EXCLUSIONARY ANTICOMPETITIVE CONDUCT

66. In pursuit of its [REDACTED] campaign against Arista, Cisco has engaged in a course of conduct that has improperly maintained its monopoly power in the Relevant Product Markets. While the following discussion identifies certain anticompetitive conduct of which Arista is aware, the law requires that the broad ranging scheme be viewed as a whole. Moreover, upon information and belief, variations of the identified conduct will be made apparent through discovery.

A. Cisco's Policy Reversal for the Purpose of Impeding Competition

1. Common CLI Commands Have Been Adopted by Users for Decades

67. A network engineer communicates with and manages an Ethernet switch through a set of words referred to as command line interface (“CLI”) commands. While customers select an Ethernet switch based on its performance, reliability, operating system features, and hardware – which costs switch manufacturers tens of millions of dollars to develop and hundreds of millions to bring to market – CLI commands are simply the communication mechanism that serve to configure, monitor, and debug Ethernet switches. There is no inherent value in CLI commands; they are purely functional. But there is significant value in the widespread knowledge among network engineers of which commands to use for which features. For example, if an engineer wanted to set the time on an Ethernet switch in her datacenter, she would type the command “clock set” followed by the time desired. An alternate command – such as “clock time” – could perform this function just as well, but the fact that network engineers have been typing “clock set” for decades makes it valuable to the industry as a standard.

68. The practice of managing computing devices through CLI commands is long established. As early as the 1960s, companies like Digital Equipment Corporation began developing operating systems for computing devices that needed to communicate with each other and with customers. Customers of such systems used a CLI for their configuration and management. For example, Digital Equipment Corporation launched its Total Operating

1 System (TOPS-10) for its mainframe computer in 1967. Customers could manage TOPS-10 by
 2 using CLI commands. Not long after, the TENEX operating system was created to run on a
 3 subsequent version of Digital Equipment Corporation's mainframe computer. Like TOPS-10
 4 before it, and the subsequent TOPS-20, TENEX was an operating system purchased by users
 5 who used CLI commands to communicate with the operating system.

6 69. In the early 1970s, UNIX – another early operating system – was developed by
 7 Bell Labs (later licensed to academic and commercial third parties). Customers also interacted
 8 with the UNIX operating system through CLI commands, which continued to evolve through
 9 several versions of the operating system over the following decades.

10 70. Upon information and belief, before Cisco was even in existence, users already
 11 grew accustomed to using CLI commands so that one did not have to re-learn them each time
 12 they employed the same function on another platform.

13 71. Thus, before Cisco offered its first Ethernet switch, CLI users already had
 14 accepted that CLI commands were not in any way innovative or valuable except for the fact that
 15 there was widespread knowledge of commands across users.

16 72. As a result, upon information and belief, Cisco's first Ethernet switch and router
 17 products, introduced in the 1980s and early 1990s respectively, drew from commonly accepted
 18 CLI commands that were already in use wholly separate from their use with Cisco's products.

19 [REDACTED]
 20 [REDACTED] And Cisco also appears to have drawn extensively from pre-existing technical
 21 standards.

22 73. As users adopted Ethernet switch technology from new competitors, they
 23 continued to use existing, commonly accepted commands already familiar to them. Moreover,
 24 as suppliers added new functionality in response to customer demand, users became familiar
 25 with CLI commands associated with that functionality. When that functionality and the
 26 associated commands are adopted widely, the latter becomes part of the body of commonly
 27 accepted commands.

2. Cisco's Long-Standing Policy Encouraged Reliance on Industry-Standard Commands

74.

see Ex. G,

For over a decade, Cisco has aggressively sold its products on the basis that the Cisco CLI commands are a widely-used “industry standard,” and compared CLI to other industry standards such as SNMP and XML. As an example, Cisco has touted in its worldwide marketing materials that its products implement industry-standard commands, thereby offering customers the benefit of “enhanced end-to-end manageability.” In so doing, Cisco expressly highlighted the fact that customer familiarity with these industry-standard commands has resulted in its adoption across firms, resulting in easier integration of competitors’ products into a customer’s network by eliminating the need to learn a completely different CLI. Cisco has also publicly noted that “[t]he Cisco IOS CLI has essentially become the standard for configuration in the networking industry.” Cisco’s data sheets, manuals, and other public statements told the marketplace, for instance, that Cisco’s new IOS XR, could be easily managed through “industry-standard management interfaces, including a modular command-line interface (CLI), Simple Network Management Protocol (SNMP), and native Extensive Markup Language (XML) interfaces” – interfaces that are known standards within the technical community.

75. Cisco made similar representations to a standard setting body called the Internet Engineering Task Force (“IETF”). The IETF publishes standards regarding a number of areas (including Applications, Operations and Management, Real-time Applications and Infrastructure, Routing, Security, Transport, and General Internet), and company representatives submit drafts and submissions in contribution to those standards (called, *e.g.*, draft Requests for Comment (“RFCs”) and Internet drafts). Cisco has made several submissions, including Internet drafts, working group emails, and draft RFCs that specifically incorporate commands that Cisco was promulgating for use within a standard. The point of using these commands in this type of industry setting has been to provide commands that would be utilized in conjunction

1 with the standard, which has the effect of encouraging engineers to rely on an industry-standard
 2 set of commands.

3 76. All such statements were made pursuant to Cisco's policy to *encourage*
 4 customers and competitors to utilize the commands incorporated into Cisco's IOS CLI, just as
 5 Cisco had drawn upon pre-existing CLI commands when entering the switch market (referred to
 6 hereinafter "Cisco's long-standing policy"). Thus, Cisco's long-standing policy had two
 7 complementary purposes: (i) it allowed Cisco to ensure customers *ex ante* that, in choosing the
 8 dominant provider, they were not locking themselves into Cisco should competitors develop
 9 more innovative or efficient products that also responded to using these industry-standard
 10 commands; and (ii) it forestalled other industry participants from acting in response to any
 11 purported intellectual property claim by Cisco, such as by promoting and standardizing an
 12 alternative CLI that Cisco would not govern.

13 77. For over a decade, Cisco intentionally made representations about industry-
 14 standard commands without qualifying those statements with any assertion of copyright or other
 15 intellectual property rights in the CLI commands. On information and belief, Cisco did so
 16 knowing that its statements would induce industry players to use those commands rather than
 17 standardizing an alternative, and to do so without challenging any Cisco copyright claim.

18 78. Cisco's long-standing policy did not delineate between CLI commands which
 19 already had been in use for decades before Cisco even began supplying Ethernet switches and
 20 the set of CLI commands adopted by the industry since that time. Nor did this policy
 21 distinguish between CLI commands used in response to features introduced by Cisco or by other
 22 vendors. Rather, Cisco's long-standing policy was to treat all of the CLI commands its users
 23 had adopted, regardless of when users started using such commands, as "industry-standard
 24 CLI." Thus, observers of Cisco's long-standing policy and its corresponding marketplace
 25 statements about industry-standard CLI would reasonably infer that Cisco would not assert any
 26 intellectual property rights in CLI commands.

27 79. In reliance on Cisco's long-standing policy, when competitors such as Dell, HP,
 28 Pluribus, and Enterasys entered the market in the 1990s and into the 2000s, they each

1 specifically highlighted to customers that, while their Ethernet switches were differentiated from
 2 Cisco's, engineers could still use the industry-standard commands that they had been trained to
 3 use previously. In making a presentation on the viability of its software management solutions,
 4 HP emphasized their products' "ease of migration and leveraging existing knowledge,"
 5 including incorporation of industry-standard commands. Dell refers to an "industry-standard
 6 CLI" among the features listed on the specification sheet for its Ethernet switches. In promoting
 7 its MicroBlade product, Pluribus claimed that "key to the MicroBlade is the Pluribus Networks
 8 Netvisor, providing a rich set of L2/L3 networking services based on an industry-standard CLI."
 9 Similarly, Enterasys highlights its products' "powerful management and configuration tools –
 10 including industry-standard Command Line Interface."

11 80. Cisco was acutely aware of this adoption by rival firms. [REDACTED]

12 [REDACTED]
 13 [REDACTED] Arista was no
 14 different, as Cisco also knew. [REDACTED]

15 [REDACTED]
 16 See Ex. H. Cisco also knew that Arista promoted EOS as using "industry standard CLI," the
 17 result of which was to benefit customers by enabling them to engage in "seamless integration
 18 into network[s]," "less time spent in operational training," and "engineering awareness."

19 81. Not only Cisco, but customers and others in the industry, knew that switch
 20 competitors to Cisco used industry-standard CLI. For example, in 2010, two years after its
 21 founding, Arista won an award for having the best switch in the industry – beating out Cisco –
 22 according to the prominent industry publication *Network World*. Arista's switch included its
 23 innovative operating system, EOS, and as *Network World* noted, customers could take
 24 advantage of these improvements while using an "IOS-like CLI" to manage the switch. (Cisco
 25 was acutely aware of this competitive development and, upon information and belief, Cisco took
 26 adverse action against certain employees upon learning that Cisco had lost the award to Arista).

27 82. Notably, even when a vendor such as IBM has developed its own CLI
 28 commands, it has, on information and belief, invested significant resources to incorporate an

1 alternative mode into their products that is designed to emulate the CLI commands that Cisco
 2 described as industry standard. In other words, IBM customers could use an emulation mode to
 3 access the same industry-standard commands they were familiar with and had been trained
 4 upon. This is a significant and powerful phenomenon, because it further illustrates the extent to
 5 which customers and competitors relied upon Cisco's policy of encouraging use of the industry-
 6 standard commands.

7 83. In reliance on these market events, as Cisco knew, customers invested millions
 8 of dollars in training network engineers to use industry-standard commands (or paying
 9 engineers already trained to do so). Becoming proficient in CLI takes approximately six to nine
 10 months for engineers working in large data centers, and a six-month period of interspersed
 11 training for smaller enterprise customers. Becoming proficient in a completely new version of
 12 CLI commands would be costly for customers because it is time-consuming.

13 84. Customers also have invested significant resources in creating "scripts" –
 14 programs designed to invoke a large number of CLI commands automatically – to make
 15 Ethernet switch management for their engineers more time-efficient. For example, rather than
 16 manually configuring each Ethernet switch in a new network, an engineer might write a generic
 17 script that includes all of the necessary CLI configuration commands. The engineer can then
 18 programmatically apply the script to each switch one after the other. The use of industry-
 19 standard commands in these scripts makes them far more efficient and useful, because they can
 20 be used across competing vendors' products. Some customers have communicated that they
 21 would not consider purchasing new Ethernet switches unless they were compatible with their
 22 entire existing script infrastructure.

23 85. Not only Cisco's internal documents, but also its external filings, show that
 24 Cisco has known for at least ten years that both customers and competitors made significant
 25 investments in reliance on Cisco's policy of encouraging use of industry-standard CLI
 26 commands. For example, in a patent application filed in 2005, later granted as U.S. patent
 27 number 7,953,886, Cisco inventors echoed Cisco's prior statements about CLI commands being
 28 commonly adopted. The Cisco inventors described IOS CLI commands in the section of the

1 patent entitled “Related Art” and stated that those commands had been developed over “twenty
 2 years” and referred to “consistency” and “backwards compatibility” in those commands.
 3 Nowhere in the written disclosure of the patent, which was first published in January 2007, did
 4 the Cisco inventors suggest that Cisco had any proprietary rights in *any* IOS CLI command.
 5 Rather, Cisco acknowledged that “many consumers have invested heavily in IOS CLI support,
 6 developing complicated scripts to handle various configuration and access needs.” In the same
 7 application, Cisco recognized that “many companies now strive to support some variation on
 8 IOS CLI.” All of those statements together would leave the reader with the impression that IOS
 9 CLI commands were in the public domain – or, at a minimum, that Cisco did not claim any
 10 proprietary rights in them.

11 86. Similarly, Cisco sold networking products that were designed to interoperate
 12 with other vendors’ switches, and that used those other vendors’ CLI command sets, even when
 13 those command sets differed from the “industry standard” commands used by Cisco. For
 14 example, Cisco sold implementations of its CiscoWorks Network Compliance Manager
 15 products and its Cisco Tail-f products that communicated with competitors’ Ethernet switches
 16 by using those competitors’ CLI command sets. On information and belief, Cisco did not
 17 obtain, or even seek, licenses from those competitors before incorporating their CLI commands
 18 into Cisco’s products. Instead, it openly adopted and used other vendors’ CLI commands in its
 19 own networking products – conduct that further confirmed to industry participants and
 20 observers that Cisco considered CLI commands to be in the public domain and usable without a
 21 license.

22 87. Cisco also marketed and sold products by representing to customers that they
 23 could – and should – use the CLI commands used by Cisco to operate other vendors’ switches.
 24 For example, the Cisco Tail-f Network Control System (“NCS”) is a tool that system
 25 administrators use to configure networks. According to Cisco, one of its “key functions” is
 26 “[m]ulti-vendor device configuration modification in the native language of the network
 27 devices.” In other words, Cisco advertised that the NCS can configure multiple different
 28 vendors’ switches by communicating with each switch in its “native language.” Cisco

1 explained in the NCS's publicly available product literature that one of the NCS's drivers
 2 communicates with "any device with a CLI that resembles Cisco's," and that this driver "is used
 3 for most CLI based devices like Alcatel-Lucent, Ericsson, Force10, etc." Thus, Cisco marketed
 4 and sold networking products for the express purpose of using "a CLI that resembles Cisco's" to
 5 communicate with non-Cisco switches. Again, the industry and customers would – and on
 6 information and belief, did – understand from Cisco's conduct that (1) Cisco knew that "most
 7 CLI based devices" used "a CLI that resembles Cisco's," and (2) Cisco agreed and intended that
 8 customers could use the CLI commands used by Cisco to operate other vendors' devices.

9 88. As Cisco was promoting the "industry standard" nature of its CLI, it was itself
 10 incorporating terms from standard-setting bodies IETF and IEEE into CLI commands for new
 11 features and protocols for switching. Hundreds of commands in Cisco's CLI command set
 12 derive in whole or in part from an IETF Internet Standard or IEEE standard. For example, the
 13 following terms, which Cisco uses to define "hierarchies" of its CLI commands in which it
 14 claims copyright, are just some of the "industry standard" CLI command words that come from
 15 published IETF standards: IP, IGMP, IPV6, OSPF, BGP, and VRRP. Even many of Cisco's
 16 multiword commands also come directly from these standards. Just some examples of these
 17 include: "vrrp authentication", "spanning-tree port-priority", "ptp domain", and "bgp
 18 confederation identifier." Cisco's use of terms such as these and others from standards
 19 publications confirmed the industry's understanding that when customers, other switch vendors,
 20 and network engineers invested in the training and use of the Cisco-promoted "industry-
 21 standard" CLI, they would not later be threatened by Cisco with a claim that that the industry-
 22 standard CLI is in fact uniquely Cisco's.

23 89. On information and belief, customers and industry players relied upon Cisco's
 24 long-standing policy and consistent conduct, without warning from Cisco that the very
 25 investments they made in reliance on the policy could later be used against them to lock
 26 customers into Cisco's inferior technology should Cisco reverse the policy in the face of a
 27 competitive threat.

1 90. In sum, Cisco embraced, promulgated, and leveraged the standardization of CLI
 2 commands for more than a decade. Cisco's internal documents, as well as its external filings,
 3 confirm that it knew that customers and competitors relied on its conduct, in the form of tens of
 4 millions of dollars of training, hardware, and software investments, because they had no reason
 5 to expect that it would change. Unfortunately it did. Cisco has now decided to
 6 opportunistically exploit these customer and competitor investments in order to maintain its
 7 market dominance in the face of a real competitive threat from Arista.

8 **3. Cisco's Reversal of Its Long-Standing Policy**

9 91. Upon information and belief, Cisco reversed its long-standing policy in 2014 by
 10 notifying customers and competitors industry-wide that use of "its" CLI was reserved
 11 exclusively for use with Cisco's products. One of the ways Cisco carried out its policy reversal
 12 was to announce to the industry that it claimed copyright infringement from Arista's use of 514
 13 CLI commands. In direct contradiction of its long-standing policy and prior representations,
 14 Cisco's General Counsel claimed in an online blog that "[t]he patented and copyrighted features
 15 and implementations [of CLI] being used by Arista are *not* industry standards." Cisco
 16 implemented this policy reversal without even an offer of a license on reasonable terms to its
 17 claimed copyrighted CLI commands; and in contrast to its years of representations, Cisco even
 18 sought injunctive relief against the use of those commands. Thus, any customer who uses CLI
 19 commands that Cisco previously promoted as "industry standard" is now at risk of facing the
 20 need either to rewrite its scripts and retrain its engineers, or to replace all of its non-Cisco
 21 Ethernet switches.

22 92. Cisco's policy reversal has been carried out in the marketplace. For example,
 23 upon information and belief, Cisco has been telling customers that they should not invest in any
 24 of Arista's Ethernet switches because such products would soon be pulled off the market. Upon
 25 information and belief, these threats were pursuant to Cisco's policy change.

26 93. Cisco's reversal of policy and its execution of this reversal of policy in the
 27 marketplace harm competition and consumers. As a result, scenarios like the following are
 28 likely: A Cisco Ethernet switch customer decides that a competitor's product offers the best

1 performance and value. The competitive Ethernet switch also offers a new innovative feature
 2 that the non-Cisco competitor spent millions to develop. As part of configuring the new feature,
 3 an engineer at the customer must type the industry-standard command “interface ethernet.”
 4 This command is also used within extensive scripts that the customer previously developed for
 5 use, and the customer had trained its engineers in the use of industry-standard commands. The
 6 effect of Cisco’s policy reversal is that if the customer wants to adopt the competitor’s
 7 technology, the competitor would need to change the command “interface ethernet” and all
 8 other required industry-standard commands to different words. The customer potentially would
 9 have to rewrite the extensive scripts it already has completed, wherever they appear, potentially
 10 in dozens to thousands of different scripts used by hundreds of engineers, and retrain all of its
 11 engineers to use the new non-standard commands. In addition to the significant upfront costs,
 12 customers forced to use the non-standard commands would likely face increased maintenance
 13 costs as engineers accustomed to industry-standard commands would be more prone to
 14 introduce errors into the network, which could result in millions of dollars in additional costs for
 15 the customer.

16 94. Thus, with major customers unable to efficiently integrate competitive products
 17 because of Cisco’s conduct, Cisco’s dominance will not be challenged. Cisco will retain or
 18 even expand upon its status as the dominant and default switch vendor, preventing competitors
 19 from competing effectively despite any technological and efficiency advantages they offer vis-à-
 20 vis Cisco.

21 95. Upon information and belief, Cisco has engaged in other conduct pursuant to its
 22 policy reversal that is specifically designed to foreclose competitive entry and expansion that
 23 would benefit customers. This necessarily drives up costs for Cisco’s competitors, both in terms
 24 of their transaction costs and their ability to sell Ethernet switches on the merits as opposed to
 25 how they adapt to Cisco’s change in policy.

26 96. Cisco knew for years that its competitors’ Ethernet switches were being
 27 managed with the same industry-standard commands it used, which it now claims are
 28 proprietary, and did nothing. **It explicitly acknowledged customers’ investment and reliance**

upon the industry-standard CLI in company documents. As part of the regular course of business, Cisco – and other vendors – have acquired competitors’ products for benchmark testing, necessitating knowledge and use of each competitor’s CLI. As discussed, Cisco encouraged the very reliance on industry-standard CLI that it observed for itself in the marketplace prior to its change in policy.

B. Cisco's SMARTnet Penalty for Competitive Ethernet Switch Purchases

97. Upon information and belief, Cisco earns the majority of its revenue in the Relevant Service Markets through its SMARTnet service program. SMARTnet service includes access to a technical assistance center, online knowledge base, proactive diagnostics and alerts on devices, software updates, hardware replacement on various timetables, and optional onsite service from Cisco engineers.

98. Upon information and belief, Cisco's Ethernet switch competitors provide comparable maintenance services for their own products (but not for Cisco's) sold into the Relevant Product Markets. Also upon information and belief, third-party maintenance and service vendors provide a minority of such services into the Relevant Service Markets, due to the restrictive policies Cisco has put in place, discussed below.

99. The global Relevant Service Market includes providers with worldwide service capabilities, and multinational customers that have a demand for such global capability. The U.S. Relevant Service Market includes providers that maintain and service switch products tailored for use in the United States specifically, and U.S.-based customers primarily compare such vendors when evaluating a given service offering.

100. Providers of Ethernet switch maintenance and service compete for sales to global customers and national customers. Accordingly, it is appropriate to analyze the competitive effects of Cisco's conduct in a global market and in the national market in which maintenance vendors compete.

101. Upon information and belief, Cisco consistently has provided in excess of 95% of the maintenance and service on its Ethernet switch products; thus, due to Cisco's consistent share in excess of 65% in the Relevant Product Markets, Cisco has possessed a consistent share

1 of approximately 60% (95% of the 65% Relevant Product Markets share) in the Relevant
 2 Service Markets. Cisco is a monopolist in the Relevant Service Markets because its share has
 3 been maintained due to the restrictive polices described below which serve as substantial
 4 barriers to entry.

5 102. No Ethernet switch maintenance and service competitor can offer the same
 6 range of services that Cisco provides because, as Cisco highlights in its SMARTnet sales
 7 materials, “no Third Party Maintenance Provider can provide [customers] with an apples-to-
 8 apples match with what Cisco’s SMARTnet provides,” and “a Third Party Maintenance
 9 Provider is not authorized to provide [customers] with Cisco bug fixes, patches and updates.”
 10 These “bug fixes, patches, and updates” are essential to the efficient, effective, and full
 11 operation (including all features) of Cisco’s hardware – they cannot be replicated and there are
 12 no reasonably interchangeable substitutes for such services.

13 103. Owners of Cisco Ethernet switches predominantly are locked into Cisco’s
 14 SMARTnet contracts because another vendor will not be able to provide all necessary updates
 15 and the owner of the switch would not be able to utilize the switch fully and securely. These
 16 facts, among others, lead to Cisco’s admission that its non-discounted SMARTnet pricing is far
 17 more expensive than that of third-party providers. Upon information and belief, third-party
 18 service providers only have been used in a minority of cases by customers that have limited
 19 maintenance requirements. Cisco has used its largely uncontestable power in the Relevant
 20 Service Markets to maintain and extend its monopoly power in the Relevant Product Markets.

21 104. Upon information and belief, Cisco’s customers in the Relevant Service Markets
 22 have entered into one- to two-year renewal SMARTnet contracts for purposes of maintenance
 23 and service on their purchased Cisco Ethernet switches and other network products. Upon
 24 information and belief, a substantial number of Cisco maintenance and service customers have
 25 SMARTnet contracts, which can cover the maintenance and service of millions of dollars’
 26 worth of Ethernet switches.

27 105. Upon information and belief, when Cisco’s SMARTnet contracts have come up
 28 for renewal, Cisco has negotiated the renewed SMARTnet rates in tandem with the purchase of

1 new Ethernet switches, including high-speed Ethernet switches. Specifically, if a customer
 2 wishes to choose a competitor for a new Ethernet switch purchase, the customer has incurred a
 3 penalty on its SMARTnet rate.

4 106. Thus, Cisco has used its control over SMARTnet service pricing in the Relevant
 5 Service Markets as an anticompetitive weapon to raise rivals' costs to preclude competition
 6 from more innovative and efficient suppliers in the Relevant Product Markets. Although it is
 7 technically possible for Cisco's customers to maintain their SMARTnet service without a
 8 corresponding purchase of new Ethernet switches, Cisco has used massive penalties on
 9 SMARTnet rates to deter customers from doing so. Upon information and belief, the difference
 10 in SMARTnet price between the price charged to a customer buying a competitor's Ethernet
 11 switch and one buying only Cisco's Ethernet switches is substantial and operates as a serious
 12 penalty. If the price difference were attributed to Cisco's Ethernet switch sales as a discount,
 13 Cisco would be selling Ethernet switches in the Relevant Product Markets below its incremental
 14 costs (even taking any service cost difference to Cisco into account).

15 107. Maintenance and service of Cisco switches is a service that Arista does not and
 16 cannot offer, in large part due to Cisco's own policies that prevent any competitive provider
 17 from offering the full suite of products and services necessary to provide maintenance and
 18 service to any large customer. While Arista offers maintenance and service of its own switches,
 19 service of the massive installed base of Cisco switches created through Cisco's years of market
 20 dominance is a separate product that (i) all major customers in the market must purchase
 21 because they all have an installed base of Cisco switches; (ii) only Cisco can offer. Thus, Arista
 22 does not and cannot offer a competitive product to Cisco's SMARTnet services.

23 108. Cisco's practice amounts to economic coercion because Cisco's competitors in
 24 the Relevant Product Markets, including Arista, cannot offer a product that can replace
 25 SMARTnet. Thus, Cisco can use a penalty on SMARTnet to undercut competition in the
 26 Ethernet switch market. A more efficient competitor in the switch market, such as Arista, will
 27 still be unable to compete because Cisco leverages its monopoly power in the Relevant Service
 28 Markets – through its massive installed base – to make it economically unattractive for

1 customers to purchase competitive switches. Moreover, the competitor cannot offer an
 2 alternative to SMARTnet, leaving it no competitive options, and ultimately depriving customers
 3 of a more efficient alternative in the Ethernet switch market. Upon information and belief,
 4 Cisco's practice of bundling SMARTnet renewals with new purchases of Ethernet switches has
 5 been widespread such that a significant proportion of new sales opportunities have been
 6 foreclosed from Cisco's competition.

7 109. Also upon information and belief, Cisco has included other products or services
 8 in bundles with Ethernet switches, such as routers or servers, which are not offered by more
 9 efficient and innovative Ethernet switch competitors. This practice also has had the effect of
 10 foreclosing highly innovative competitors in the Relevant Product Markets that do not offer all
 11 the products that Cisco has included in its bundles. In short, Cisco is leveraging its dominant
 12 position in other market segments to ensure that its core monopolies in the Relevant Product
 13 Markets are protected against innovative and efficient new competition.

14 **IX. CISCO'S OVERALL SCHEME HARMS CONSUMERS AND STIFLES MORE
 15 INNOVATIVE AND EFFICIENT TECHNOLOGY**

16 110. Cisco's multifaceted scheme forecloses the first real chance for competition in
 17 the Relevant Product Markets. [REDACTED]

18 [REDACTED] Again, while the following discussion
 19 identifies some of the harmful effects of Cisco's conduct in the Relevant Product Markets, the
 20 Court should consider the effects of this broad-ranging scheme as a whole.

21 111. Cisco's course of conduct targets consumers in the Relevant Product Markets.
 22 Absent this Court's intervention, Cisco will continue to maintain supra-competitive prices for
 23 less-innovative technology in the Relevant Product Markets. Because customers are now unable
 24 to consider offerings on the merits, for instance if competitors provide more reliable or faster
 25 Ethernet switches (as Cisco acknowledges in its documents), such customers in the Relevant
 26 Product Markets are likely to pay supra-competitive prices for less-innovative technology.
 27 Indeed, Cisco itself would likely be forced to lower its prices to the benefit of consumers if

1 more innovative competition was not foreclosed. Instead, upon information and belief, Cisco is
 2 able to suppress its output and maintain supra-competitive prices.

3 112. Customers can no longer compare products on the basis of their technological
 4 innovations or efficiency. While the maintenance of pricing and the suppression of more
 5 innovative products are classic antitrust harms, Cisco is also robbing customers of a choice on
 6 the merits. For instance, Cisco has forced customers to assess whether competitors' products
 7 are now long-term viable investments given its policy reversal. Customers cannot viably
 8 answer this question because they cannot predict how Cisco will implement its new policy next.
 9 Indeed, customers may decide that due to the long-term investments they made in reliance on
 10 Cisco's many representations that commands were industry-standard and thus interoperable
 11 with other vendors' switches, it does not matter how much more innovative or efficient another
 12 technology may be given the investments they would have to remake to support competing
 13 technology products that are intended to be operational over a five- to fifteen-year life cycle.

14 113. Indeed, the capital investment made by customers in Ethernet switches runs into
 15 the billions (the global Ethernet switch market is currently more than \$23 billion annually and
 16 growing); thus, customers treasure the ability to choose the product that offers the best
 17 performance and best value. Cisco's conduct hinders them from doing so. Indeed, upon
 18 information and belief, customers' prior "huge investment" (as Cisco itself described it) in
 19 Cisco's Ethernet switches is now preventing customers in the Relevant Product Markets from
 20 making choices on the merits due to Cisco's policy change.

21 114. Cisco's conduct freezes the Relevant Product Markets and disincentivizes
 22 customers from buying competitive Ethernet switches even when they are the most cost
 23 effective and/or innovative technology in the Relevant Product Markets.

24 115. In addition, Cisco's conduct drives up its competitors' costs in the Relevant
 25 Product Markets by forcing competitors to justify to customers that it is permissible for their
 26 products to utilize CLI commands that Cisco characterized as industry-standard commands. In
 27 addition, upon information and belief, if a large customer's scripts had to be modified to

1 accommodate non-industry-standard commands, it would increase the cost of implementing a
 2 non-Cisco vendor's product by millions of dollars.

3 116. Cisco's conduct has had debilitating effects upon innovative competing
 4 suppliers in the Relevant Product Markets. Without being able to penetrate customers that have
 5 spent millions training their employees and building scripts based on industry-standard
 6 commands, competitors' ability to achieve the viable scale needed to compete will be difficult,
 7 if not impossible. Under these circumstances, some competitors may decide that there is no
 8 business case for long-term investment in their products, and be forced to exit the market,
 9 reducing further the very modest competitive pressure in the market. Even competing suppliers
 10 that manage to remain in the industry will have smaller budgets to invest in R&D, which will
 11 result in a chilling effect on innovation. As a result, customers will be limited in their ability to
 12 choose the most innovative suppliers in the Relevant Product Markets, and will be forced to
 13 continue paying supra-competitive prices for Cisco's products.

14 117. Indeed, Cisco itself has been at the forefront of advocacy in favor of patent-law
 15 reform to combat the anticompetitive effects associated with a monopolist's "ambush" of
 16 customers and competitors based on their adoption of an industry standard. Cisco's chief in-
 17 house antitrust counsel and General Counsel have repeatedly announced that, where customers
 18 and competitors adopt a standard on the premise that no proprietary rights were associated with
 19 that adoption, any *ex post* assertion of such alleged proprietary rights "has a much higher value
 20 *ex post* than *ex ante*." These comments highlight Cisco's recognition that the very kind of
 21 conduct in which it is engaged here is harmful to competition and consumers. In addition, these
 22 types of statements, made before its policy reversal, further encouraged the industry to believe
 23 that Cisco would not assert alleged intellectual property in an industry-standard utility.

24 118. As discussed, the Relevant Product Markets encompass technology that is
 25 pivotal to the Internet and e-commerce as a whole, both now and even more so in the future.
 26 Leading technology companies depend upon continued rapid advances in high-speed switch
 27 technology to support their own ability to innovate. Thus, the anticompetitive effects of Cisco's
 28 conduct will inevitably spill over into other markets depending on that innovation. Global and

1 U.S. consumers of all such technology will ultimately pay the price of Cisco's exclusionary
 2 conduct if Cisco is not enjoined.

3 119. As another example, Cisco's practice of discriminatory SMARTnet pricing
 4 against customers that choose to buy new Ethernet switches from a competitor is specifically
 5 targeted at customers who seek to purchase more innovative and cost-effective technology, but
 6 are victims of Cisco's SMARTnet contracts and policies for its previous Ethernet switch
 7 purchases. Customers in the Relevant Product Markets will continue to pay supra-competitive
 8 prices for less innovative products due to this practice.

9 120. [REDACTED]
 10 [REDACTED]
 11 [REDACTED] See Ex. F. As a result of Cisco's
 12 price penalties involving at least SMARTnet (and, upon information and belief, potentially other
 13 Cisco product lines), Cisco effectively raises those barriers to entry and the costs of rivals,
 14 which has the effect of raising the relative price of Ethernet switches sold to customers in the
 15 Relevant Product Markets. For example, even though Arista is a more innovative and efficient
 16 supplier in the Relevant Product Markets, upon information and belief, customers forgo the
 17 purchase of Arista's products because Cisco would significantly penalize them through
 18 SMARTnet pricing. Upon information and belief, major customers may test a competitive
 19 vendor with an initial sale of Ethernet switches that leads to more extensive investments in that
 20 competitor's products. Cisco's bundling penalties have precluded even such initial purchases of
 21 competitive equipment. By raising rivals' costs in this manner, Cisco has maintained and
 22 increased its monopoly power over price, quality, and innovation in the Relevant Product
 23 Markets.

24 **X. CISCO HAS NO BUSINESS JUSTIFICATION FOR ITS CONDUCT, AS ITS
 25 SOLE PURPOSE IS TO FORECLOSE COMPETITION**

26 121. Cisco has no valid business justification for its conduct – its sole purpose is the
 27 suppression of competition, and its exclusionary conduct offers the market no procompetitive
 28 benefit. The only thing that changed before Cisco's reversal of its policy was the emergence of

1 more innovative and more efficient competitors that provided the first real threat to its
 2 monopolies. Faced with this threat, Cisco's then-CEO and current Chairman John Chambers
 3 directed, [REDACTED] See
 4 Ex. A. [REDACTED]
 5 [REDACTED]

6 122. Upon information and belief, in the absence of Cisco's long-standing policy and
 7 its recent reversal, competitors and customers would not have been locked into industry-
 8 standard CLI. Rather, customers would have demanded and used CLI commands that did not
 9 potentially lock them into any particular vendor, and competitors would not have adopted CLI
 10 commands that could be used to foreclose them from the Relevant Product Markets. Again
 11 upon information and belief, the competitive dynamics of the Relevant Product Markets in
 12 terms of both manufacturer investments and customer reliance, including, *e.g.*, the development
 13 of scripts and the training of engineers, would have been different in the absence of Cisco's
 14 conduct.

15 123. Cisco's conduct before the IETF highlights the pretextual nature of its policy
 16 change. There, Cisco continues to make submissions contributing to Internet standards that
 17 contain its purported proprietary property in industry-standard commands. For example, in
 18 January 2015, Cisco submitted a proposal for consideration into an IETF standard, known as an
 19 internet draft, utilizing its allegedly proprietary command "default-metric." Despite the IETF's
 20 Intellectual Property Right ("IPR") policy requiring Cisco to disclose any purported intellectual
 21 property, including copyright and patents, Cisco has disclosed nothing of the sort for its
 22 submissions containing industry-standard commands.

23 **XI. ARISTA HAS SUSTAINED AN ANTITRUST INJURY AS A DIRECT AND
 24 PROXIMATE RESULT OF CISCO'S COURSE OF CONDUCT**

25 124. Since its founding as a company in 2004, Arista has persuaded some of the most
 26 cutting-edge technology companies in the world to adopt its products. Many of these sales were
 27 into customer environments where Cisco is the predominant vendor in the customer's network
 28 infrastructure. Arista has pioneered a revolutionary approach to scalable, high-speed Ethernet

1 switches that is driving new network architectures for its customers. Arista has made these
 2 advancements with a multitude of technological breakthroughs, including its EOS operating
 3 system. As one senior Cisco employee acknowledged, “Arista is truly an amazing company,”
 4 and its founder is “a genius” whom “Cisco should fear whenever he treads nearby.” See Ex. B.

5 125. Arista’s success represents exactly the kind of phenomenon which would result
 6 in increased output, innovation, greater efficiency, and choice to consumers in the absence of
 7 Cisco’s multifaceted scheme. The injury to Arista is a direct byproduct of the injury to
 8 consumers discussed above.

9 126. While Cisco’s scheme has been designed to foreclose all innovative
 10 competition, Cisco has had a particular animus against Arista. As noted earlier, Cisco even
 11 funded and immediately acquired a start-up called Insieme that was supposed to be the “Arista
 12 killer.” Insieme, however, has not succeeded in slowing Arista’s momentum in the marketplace
 13 through legitimate competition. Cisco’s broad-ranging scheme of anticompetitive conduct is
 14 specifically designed to preclude competitors such as Arista from making further gains in the
 15 Relevant Product Markets. Those gains would inevitably result in lower prices, increased
 16 innovation, and increased overall choice to customers.

17 127. Like all Cisco competitors, Arista is unable to offer full-scale maintenance and
 18 service of Cisco equipment (including Ethernet switches) due to Cisco’s own policies. Even
 19 though Arista is a more innovative and efficient supplier in the Relevant Product Markets than
 20 Cisco, Cisco has been able to maintain its monopolies in the Relevant Product Markets and
 21 maintain supra-competitive prices by penalizing customers for SMARTnet service pricing
 22 should they implement Arista Ethernet switches in their existing networks. Upon information
 23 and belief, Arista has lost sales in the Relevant Product Markets due to this practice.

24 128. Due to its success in the high-speed Ethernet switch markets – Arista has grown
 25 to a nearly 8% share in just six years – Arista would present an even greater competitive threat
 26 to Cisco’s monopolies in the Relevant Product Markets if it were permitted to compete on the
 27 merits. [REDACTED]

28 [REDACTED] Indeed, the harm to Arista is a perfect proxy for the harm to

1 industry-wide competitors and customers, because it is the type of innovative and efficient
 2 competitor that, if not improperly hindered by Cisco's overall scheme, would be able to
 3 significantly penetrate the Relevant Product Markets. That penetration, absent Cisco's conduct,
 4 would force Cisco to become more innovative and more efficient to the benefit of consumers.
 5 Instead, the opposite is occurring. Competitors such as Arista are being improperly foreclosed,
 6 and Cisco is maintaining its dominance not by virtue of its products, but rather through its
 7 overall anticompetitive scheme.

8 129. Arista's injury reflects the anticompetitive effects of Cisco's exclusionary
 9 conduct. It is precisely through the exclusion of Arista and other rivals from effective
 10 competition in the Relevant Product Markets that Cisco has been able to maintain its monopoly
 11 power, resulting in higher prices, reduced output, and slowed innovation.

12 **XII. NO IMMUNITY**

13 130. The alleged validity of Cisco's copyright claim is irrelevant here because
 14 Cisco's anticompetitive conduct does not lie in its enforcement of intellectual property rights,
 15 but rather in its long-running scheme and dramatic change in policy. Cisco cannot claim any
 16 immunity for its overall anticompetitive scheme, which extends back more than a decade. For
 17 that time, upon information and belief, Cisco has embarked on a course of conduct that was
 18 executed in the marketplace with, *e.g.*, sales sheets and negotiations, marketing presentations,
 19 IETF submissions (both working group emails and internet drafts of standards), customer sales
 20 calls, engineer support calls, recruiting materials, unilateral maintenance and service policies,
 21 and even intimidation tactics. All of this conduct, taken as a whole, played a part in Cisco's
 22 overall scheme to monopolize the Relevant Product Markets. **As Cisco knew**, its conduct
 23 created a reliance interest on the part of customers and competitors in the market, which became
 24 locked into the use of industry-standard CLI. As a result, this Court need not resolve the
 25 validity of Cisco's purported intellectual property claims before addressing the acute
 26 anticompetitive harm resulting from Cisco's conduct.

27 131. Thus, the *Noerr-Pennington* doctrine does not apply to this case. Cisco's
 28 conduct is not merely encompassed by a lawsuit or other government petitioning, nor is the

1 lawsuit particularly relevant. Rather, Cisco's scheme has had a particular focus on *marketplace*
 2 conduct and impact, including but not limited to its penalizing of SMARTnet customers who
 3 purchase competitive Ethernet switches, as well as decades of conduct promoting industry
 4 reliance on industry-standard commands. Cisco has even used a standard-setting body, the
 5 IETF, as a forum to further execute its scheme by encouraging and successfully securing formal
 6 standards adopted that incorporate industry-standard commands. Even with regard to Cisco's
 7 lawsuit, Cisco has brought that legal battle into the marketplace by engaging in intimidation
 8 tactics. Upon information and belief, Cisco specifically targeted several customers in an effort
 9 to disrupt Arista's business relations. Cisco's anticompetitive conduct could not be further from
 10 a mere lawsuit; rather it is an overall scheme focused on the marketplace that is specifically
 11 designed to foreclose competitive entry and expansion.

12 **XIII. CLAIMS FOR RELIEF**

13 ***Count I***

14 ***Violation of Sherman Act § 2: Unlawful Monopolization***

15 132. Arista realleges and incorporates paragraphs 1 through 131 by reference.

16 133. Cisco's conduct constitutes the intentional and unlawful maintenance of
 17 monopoly power in each of the Relevant Product Markets, in violation of Section 2 of the
 18 Sherman Act, 15 U.S.C. § 2.

19 134. For the purpose of maintaining its monopoly power, Cisco committed numerous
 20 acts, including:

21 (a) Carrying out a long-time policy for over a decade that encouraged
 22 customers and competitors to utilize and innovate on top of industry-standard commands, only
 23 to reverse that policy when Cisco faced the first threat to its dominance when competitors
 24 started introducing Ethernet switches superior in quality to Cisco's;

25 (b) Engaging in associated intimidation tactics pursuant to its policy change
 26 and overall scheme to hinder competition; and

27 (c) Penalizing SMARTnet customers renewing their contracts who choose to
 28 implement new competitive Ethernet switches into their networks that still require maintenance

1 and service of their existing Cisco Ethernet switches and other network products, thus using its
2 monopoly power in the Relevant Service Markets to maintain its monopoly power in each of the
3 Relevant Product Markets.

4 135. Cisco has excluded competitors, including Arista, from each of the Relevant
5 Product Markets and has deprived consumers of the benefits of competition among suppliers of
6 switches.

7 136. Cisco does not have a legitimate business purpose for any of its anticompetitive
8 conduct. Any claimed procompetitive benefit is pretextual in light of the obvious competitive
9 circumstances and associated marketplace conduct inconsistent with any such benefit. Cisco's
10 conduct does not result in any greater ability to reduce costs in producing or innovating upon
11 Ethernet switches it sells to customers that could result in reduced prices, higher quality, or
12 greater availability to customers. Neither does Cisco's conduct reduce barriers to other vendors'
13 entry, or otherwise result in greater competition in the Relevant Product Markets. The only
14 "benefit" that flows from Cisco's conduct is a reduction in competition, and that benefit inures
15 only to Cisco's advantage, not to that of customers or competition on the merits.

16 137. Cisco's unlawful monopolization has injured competition in each of the
17 Relevant Product Markets, suppressed sales of Arista's products and the products of other
18 competitors, diminished Arista's future sales opportunities and the sales opportunities of other
19 competitors, and increased Arista's operating costs and the operating costs of other competitors.

20 138. Cisco's overall course of conduct has and will continue to, *inter alia*, maintain
21 supra-competitive prices to customers in each of the Relevant Product Markets, harm innovation
22 associated with the products offered in each of the Relevant Product Markets, and otherwise rob
23 customers of their ability to make an unfettered choice of technology on the merits.

Count II

Violation of Sherman Act § 2: Attempted Monopolization

26 139. Arista realleges and incorporates paragraphs 1 through 131 by reference.

1 140. Cisco acted with a specific intent to monopolize and to destroy competition in
 2 each of the Relevant Product Markets. Cisco devised and implemented a plan to systematically
 3 eliminate competition in each of the Relevant Product Markets.

4 141. Cisco willfully engaged in a course of exclusionary conduct to obtain a
 5 monopoly in each of the Relevant Product Markets, including:

6 (a) Carrying out a long-time policy for over a decade that encouraged
 7 customers and competitors to utilize and innovate on top of industry-standard commands, only
 8 to reverse that policy when Cisco faced the first threat to its dominance when competitors
 9 started introducing Ethernet switches superior in quality to Cisco's;

10 (b) Engaging in associated intimidation tactics pursuant to its policy change
 11 and overall scheme to hinder competition; and

12 (c) Penalizing SMARTnet customers renewing their contracts who choose to
 13 implement new competitive Ethernet switches into their networks that still require maintenance
 14 and service of their existing Cisco Ethernet switches and other network products, thus using its
 15 monopoly power in the Relevant Service Markets to enhance its power in each of the Relevant
 16 Product Markets.

17 142. Cisco does not have a legitimate business purpose for any of its anticompetitive
 18 conduct. Any claimed procompetitive benefit is pretextual in light of the obvious competitive
 19 circumstances and associated marketplace conduct inconsistent with any such benefit. Cisco's
 20 conduct does not result in any greater ability to reduce costs in producing or innovating upon
 21 Ethernet switches it sells to customers that could result in reduced prices, higher quality, or
 22 greater availability to customers. Neither does Cisco's conduct reduce barriers to other vendors'
 23 entry, or otherwise result in greater competition in the Relevant Product Markets. The only
 24 "benefit" that flows from Cisco's conduct is a reduction in competition, and that benefit inures
 25 only to Cisco's advantage, not to that of customers or competition on the merits.

26 143. Throughout the time Cisco engaged in this exclusionary conduct, it had a
 27 dangerous probability of succeeding in gaining a monopoly in and controlling each of the
 28 Relevant Product Markets and excluding its competitors.

144. Cisco's unlawful attempts to destroy competition in each of the Relevant Product Markets have injured competition in each of the Relevant Product Markets, suppressed sales of Arista's products and the products of other competitors and diminished Arista's future sales opportunities and the sales opportunities of other competitors, and increased Arista's operating costs and the operating costs of other competitors.

145. Cisco's overall course of conduct has and will continue to, *inter alia*, maintain supra-competitive prices to customers in each of the Relevant Product Markets, harm innovation associated with the products offered in each of the Relevant Product Markets, and otherwise rob customers of their ability to make an unfettered choice of technology on the merits.

Count III

Violation of Section 17200 of the California Business and Professional Code

146. Arista realleges and incorporates paragraphs 1 through 131 by reference.

13 147. Cisco has committed acts of unfair competition within the meaning of Section
14 17200 of the California Business and Professional Code, the California Unfair Competition Law
15 (“UCL”), by engaging in unlawful and unfair conduct. Cisco’s unlawful and unfair business
16 acts and practices have harmed competition in California and elsewhere threaten significant
17 harm to competition in the future. Cisco’s conduct is a direct and proximate cause of injury to
18 California consumers and to Arista.

19 148. Cisco has engaged in unlawful conduct pursuant to business activity in violation
20 of the UCL. As set forth in paragraphs 132 through 145 above, Cisco's conduct violates
21 Section 2 of the Sherman Act.

22 149. Cisco has engaged in unfair conduct within the meaning of the UCL by, *inter*
23 *alia*: (1) opportunistically reversing a long-standing policy of encouraging reliance on the use of
24 industry-standard CLI commands only when its dominant position in the Relevant Product
25 Markets began to be threatened by competitors offering higher-quality and/or lower-cost
26 products; (2) engaging in intimidation tactics pursuant to its shift in policy in order to induce
27 several customers not to purchase products from Arista; and (3) coercing its own customers into

1 forgoing purchasing competitive switch products by threatening punitive price increases for its
 2 SMARTnet service.

3 150. Cisco's unfair conduct has significantly harmed competition in the markets for
 4 Ethernet switches and high-speed Ethernet switches within California and elsewhere and
 5 threatens an incipient and continuing harm to competition if not restrained. Cisco's unfair
 6 conduct also violates the policy and spirit underlying the antitrust laws. For more than a decade,
 7 Cisco knowingly encouraged the switch industry to use industry-standard CLI commands
 8 leading customers to make investments in reliance on widespread use of those commands.
 9 Cisco's conduct solidified its dominant position by ensuring that the vast majority of network
 10 engineers would be trained on industry-standard CLI. However, Cisco reversed course when its
 11 dominance was threatened by competitive suppliers making the hundreds of millions of dollars
 12 in investments necessary to develop higher-quality and/or lower-cost Ethernet switches.
 13 Customers made significant investments dependent on industry-standard CLI and, by reversing
 14 its long-standing policy, Cisco is able to opportunistically exploit those investments to lock
 15 customers into Cisco's products.

16 151. Arista has suffered injury as a direct, proximate, and foreseeable result of
 17 Cisco's unlawful and unfair business activities. Arista has suffered or faces the threat of, *inter*
 18 *alia*, increased costs related to unwinding its own investments in developing products in reliance
 19 on Cisco's long-standing policies, loss of customers and potential customers resulting from
 20 customer investments locking them into CLI commands that Cisco had held out as an industry
 21 standard, loss of profits, loss of goodwill and product image, and uncertainty in Arista's own
 22 business planning and among customers regarding Cisco's future policy changes.

23 152. California consumers have been harmed and are threatened with continued harm
 24 as a direct, proximate, and foreseeable result of Cisco's unlawful and unfair activity. If Cisco's
 25 conduct is not restrained, Ethernet switch customers will be either locked into more expensive
 26 and/or lower-quality Cisco products or incur substantial costs to undo the investments they had
 27 made based on industry-standard CLI. These customers will likely pass these costs downstream
 28 or suffer from reduced output and/or decreased innovation in their own business operations.

1 Many of these customers create products and services that are fundamental to the operation of
 2 the Internet and to emerging technologies, such as cloud computing. Cisco's conduct thus
 3 threatens to increase prices and decrease innovation in this critical sector of the California
 4 economy.

5 153. Arista is seeking a preliminary and permanent injunction to prevent Cisco from
 6 interfering with Arista's prospective economic relations and from damaging competition in the
 7 Relevant Product Markets through to its anticompetitive conduct.

8 **PRAAYER FOR RELIEF**

9 WHEREFORE, Arista prays for judgment in its favor and against Cisco as follows:

10 1. Finding that Cisco engaged in unlawful anticompetitive conduct in violation of
 11 Section 2 of the Sherman Act (15 U.S.C. § 2), Section 17200 of the California Business and
 12 Professional Code.

13 (a) An Order directing the termination of the anticompetitive conduct and
 14 injunctive relief that restores competition to the markets at issue, including but not limited to
 15 restoring Arista to the position it would have occupied but for Cisco's unlawful exclusionary
 16 conduct;

17 (b) Treble damages (including lost profits), in an amount to be determined at
 18 trial and that cannot now be adequately quantified before relevant discovery;

19 (c) Arista's costs of suit herein, including its attorneys' fees actually
 20 incurred;

21 (d) Punitive damages;

22 (e) Restitutionary relief; and

23 (f) Such other relief as may be just and proper.

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REQUEST FOR TRIAL BY JURY

Pursuant to Federal Rules of Civil Procedure, Rule 38(b), Arista respectfully requests trial by jury for all of the issues pled so triable.

Dated: January 25, 2016

Respectfully submitted,

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